

Top Secret



NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

PHOOTOGRAPHIC
EXPLOITATION
PRODUCTS

VOL. 4 OF 4 VOLUMES

**ANNUAL INDEX TO
PHOTOGRAPHIC EXPLOITATION PRODUCTS
JANUARY-DECEMBER 1978**

(See inside cover)

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ANNUAL INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS JANUARY-DECEMBER 1978

MARCH 1978

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INTRODUCTION

The Index to Photographic Exploitation Products is a guide to the contents of reports and memoranda produced by means of photographic interpretation. These are added to the Exploitation Products Data File (EPF) of the National Base of Image-Derived Information (NBIDI) when received by the National Photographic Interpretation Center (NPIC). The index includes imagery interpretation reports produced by various components of the Army, Navy, Air Force, Central Intelligence Agency, Defense Intelligence Agency, and foreign governments, as well as those produced by NPIC. At the request of COMIREX/NIDBWG, this publication is compiled and published monthly then cumulated annually by NPIC for the use of properly cleared components of USIB member organizations.

Listed documents are on file in NPIC, and microfiche copies are available to requesters when parent organizations are unable to provide copies. Information, such as bibliographies on specific subjects, is available from the EPF to answer requests which cannot be satisfied from the PEP.

Requests for regular distribution of the PEP, for additional information from the EPF, or for microfiche copies of documents should be channeled through appropriate liaison offices located in NPIC. Organizations which do not have a liaison office in NPIC should submit the request in writing to NPIC/PSG/RSD/IB.

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GUIDE TO USERS

The PEP consists of six indexes:

- Subject in alphabetic sequence.
- Originator in report type/number sequence.
- General category with subject in alphabetic sequence.
- Geographic coordinate sequence. (Geographic coordinates area listed where a single area is involved.)

- WAC/BE number sequence.

- Accession number sequence.

The accession number sequence may be referred to for complete information on each document, including edited abstracts. An asterisk at the end of an abstract indicates the abstract was prepared by the Reports Analysis Section. Selected information is contained in the other sequences. The accession number should be used when requesting microfiche copies of documents.

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ABBREVIATIONS AND NUMERIC CODES

REPORT TYPES

ARA - All Source Research Aid
BIBLO - Bibliography
BIIB - Basic Imagery Interpretation Brief
BIIR - Basic Imagery Interpretation Report
BRAD - Briefing Aid (Only microfiche copies are available.)
BREF - Photographic Interpretation Brief

DPIR - Detailed Photographic Interpretation Report
DSIIB - Direct Support Photographic Interpretation Brief
DSIIR - Direct Support Photographic Interpretation Report
ENDR - Engineering Drawing
FEDR - Detailed Photographic Interpretation Report (Far East)
FEGR - General Photographic Interpretation Report (Far East)
FESR - Special Photographic Interpretation Report (Far East)
IIM - Imagery Interpretation Memorandum
IIR - Imagery Information Report
INFR - Inter-office Memorandum
IPIR - Initial Photographic Interpretation Report

IRA - Imagery Research Aid
IRP - Imagery Research Paper
LOT - Letter of Transmittal
MCS - Mission Coverage Statistics
MEMO - Memorandum
MIPIR - Multi-mission Imagery Interpretation Report
MODL - Model Announcement
NAIR - New Applications of Imagery Report
NBRG - National Basic Reference Graphic
NEDR - Detailed Photographic Interpretation Report (Near East)
NEGR - General Photographic Interpretation Report (Near East)
NEIR - Initial Photographic Interpretation Report (Near East)
NESR - Special Photographic Interpretation Report (Near East)
NEWS - Technical Newsletter
NOTE - Photographic Interpretation Note
OAK - Initial Mission Readout
PAR - Photographic Analysis Report
PIN - Photographic Interpretation Note
PIR - Photographic Interpretation Report

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ABBREVIATIONS AND NUMERIC CODES (Continued)

REPORT TYPES (Continued)

REPT - Photographic Interpretation Report
SPIR - Special Photographic Intelligence Report
SR - Summary Report
STDY - Study
SUPR - Supplemental Photographic Intelligence Report
TP - Technical Publication

07 - CONFIDENTIAL

08 - CONFIDENTIAL

10 - TOP SECRET CHESS

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SECURITY CLASSIFICATION

00 - UNCLASSIFIED

01 - TOP SECRET

02 - TOP SECRET

04 - SECRET

05 - SECRET

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ORIGINATOR

ACDA - ARMS CONTROL AND DISARMAMENT AGENCY

AF - AIR FORCE

ARMY - ARMY

CIA - CENTRAL INTELLIGENCE AGENCY

DIA - DEFENSE INTELLIGENCE AGENCY

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE
COMMITTEE

JOINT - JOINT (2 or more USIB members participating)

NATO - NORTH ATLANTIC TREATY ORGANIZATION

NAVY - NAVY

NPIC - NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NSA - NATIONAL SECURITY AGENCY

NTPC - NATIONAL TECHNICAL PROCESSING CENTER

SAC - SAC (544th RTS)

SAC-1 - SAC-1 (8th RTS)

SAC-2 - SAC-2 (3921 ST RTS)

SAC-C - SAC-C (15th RTS)

STL - SPACE TECHNOLOGY LABORATORY

USIB - UNITED STATES INTELLIGENCE BOARD

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EPF SUBJECT CATEGORIES

05 - AIR ACTIVITY

Airfields, seaplane stations, aircraft, storage, production, research, training, aerohydrodynamic vehicles, and air defense activity.

10 - GENERAL ACTIVITY

Complex studies, unidentified installations/equipment, and terrain or analyses, agriculture analyses.

13 - BIOLOGICAL/CHEMICAL WARFARE ACTIVITY

Research, production, testing, training, and storage.

15 - COMPREHENSIVE REPORTS

Mission readouts, summaries, and country or area studies.

25 - ELECTRONICS/COMMUNICATIONS ACTIVITY

Radar and radio installations/equipment, missile, air, naval related installations/equipment, production, research, testing.

30 - INDUSTRIAL ACTIVITY

Raw materials, basic processing, heavy and light industry, chemical plants, and power facilities. (For shipbuilding, see NAVAL. For nuclear power plants, see NUCLEAR.)

35 - MILITARY ACTIVITY

Ground force installations/equipment, production, testing, research, and repair.

40 - MISSILE & SPACE ACTIVITY

Sites, research, production, storage, and equipment.

55 - NUCLEAR ACTIVITY

Mining, production research, testing, storage, and nuclear power plants.

60 - OVERLAYS/PLOTS

Mission Coverage Plots, Mission Coverage Statistics, tracks, and annotated maps.

65 - RESEARCH AND DEVELOPMENT ACTIVITY

Technical publications and miscellaneous R&D installations.

75 - NAVAL ACTIVITY

Submarine bases, naval bases and air stations, shipyards, research, and equipment.

80 - STORAGE ACTIVITY (NON-MILITARY)

POL storage, agricultural storage, and industrial storage.

85 - TRANSPORT AND PIPELINE ACTIVITY

Road and rail activity, pipelines, and canal systems.

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CIA INFR IS10083K-78 11 APR 78

SEC CLASS: 13

12P

ACCN: 5083532

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SARY SHAGAN MTC COMPLEX F SITE 3 ABM PSTN U/C
WAC NO : 0245 BE/OBJ NO:
IDHS CODE: EPF CAT : 40DUR 462629N 0725108E
NPIC NO : - 49-B6
COMIREX NO:25X1
25X1

THE NEW ANTI-BALLISTIC MISSILE (ABM) LAUNCH POSITION AT SITE 3, LAUNCH COMPLEX F, SARY SHAGAN MISSILE TEST CENTER IS APPARENTLY NEARING COMPLETION. THIS POSITION IS SIMILAR IN MANY RESPECTS TO THE ABM LAUNCH POSITION AT SITE 5, IN THE SAME LAUNCH COMPLEX, WHERE A CONICAL MISSILE WAS SEEN MOUNTED ON A RAIL LAUNCHER IN OCTOBER 1973.

THE LAUNCH POSITION AT SITE 3 HAS BEEN UNDER CONSTRUCTION FOR ABOUT 14 MONTHS. IT CONSISTS OF A CRADLE-TYPE LAUNCHER WHICH HOLDS AN ABM MISSILE CANISTER OR LAUNCH TUBE. BASED ON THE AVAILABLE EVIDENCE, OIA BELIEVES THAT THIS NEW LAUNCH POSITION WILL BE USED TO TEST A NEW, HIGH-ACCELERATION ABM SUCH AS THE SH-08. THEY ALSO BELIEVE THAT THE CANISTER-LAUNCH TECHNIQUE IS THE LOGICAL NEXT STEP IN THE SOVIET RESEARCH AND DEVELOPMENT PROGRAM ON ABM TECHNOLOGY.

CIA INFR IS10084J-78 17 APR 78

SEC CLASS: 24

MSN:

44P

ACCN: 5083533

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MILITARY, 40TH ARMY SHENYANG MILITARY REGION CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE 40TH ARMY IS LOCATED IN LIAONING PROVINCE, SOUTHWESTERN SHENYANG MILITARY REGION. THE ARMY HEADQUARTERS AND MAJOR SUPPORT ELEMENTS ARE LOCATED IN CHIN-CHOU. THE ARMY HAS THREE SUBORDINATE INFANTRY DIVISIONS LOCATED AT I-HSIEN, CHAO-YANG, AND HSING-CHENG. OIA HAS IDENTIFIED ALL OF THE MAJOR ELEMENTS OF THIS ARMY AND ITS SUBORDINATE DIVISIONS.

THE 40TH ARMY HEADQUARTERS HAS REMAINED IN CHIN-CHOU SINCE AT LEAST 1953. BUT, IN 1971 OR 1972, ONE OF THE DIVISIONS OF THIS ARMY RELOCATED TO THE NORTHWEST. DURING THE RELOCATION, TRAINING LEVELS FOR THE DIVISION WERE LOW. HOWEVER, THE RELOCATION NOW APPEARS ALMOST COMPLETE; NEW INSTALLATIONS AND TRAINING FACILITIES HAVE BEEN CONSTRUCTED, AND ACTIVITY LEVELS HAVE INCREASED.

CIA INFR IS10085K-78 13 APR 78- SEC CLASS: 14 MSN: 15P ACCN: 5083534 25X1

MILITARY, 7TH ASSAULT LANDING DIVISION PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS STUDY PRESENTS A PHOTOGRAPHIC ANALYSIS OF THE INSTALLATIONS, UNITS, AND EQUIPMENT ASSOCIATED WITH THE POLISH 7TH ASSAULT LANDING DIVISION (ALD). THE DIVISION CONSISTS OF THREE ASSAULT LANDING REGIMENTS, A TANK BATTALION, AND COMBAT SUPPORT UNITS LOCATED AT INSTALLATIONS IN GDANSK, SLUPSK, AND LEBORK NEAR THE BALTIC COAST. THE 2ND POLISH LANDING CRAFT BRIGADE RESPONSIBLE FOR TRANSPORTING THE DIVISION IS LOCATED AT SWINOUJSCIE.

THE INSTALLATIONS ARE ACTIVE AND APPEAR TO BE FULLY EQUIPPED. THE TYPES OF UNITS IDENTIFIED AT THESE INSTALLATIONS GENERALLY AGREE WITH THE PUBLISHED DIA AND NAVAL ORDERS OF BATTLE. OIA DID FIND THAT THE TANK BATTALION OF THE DIVISION, CARRIED BY DIA AS A MEDIUM TANK BATTALION, IS EQUIPPED WITH A MIXTURE OF MEDIUM TANKS AND LIGHT AMPHIBIOUS TANKS.

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DIA IIM 5B1-52734-78 APR 78 [] SEC CLASS: 14B [] 5P ACCN: 5083536 25X1
CHELYABINSK MILITARY INSTALLATION
WAC NO : 0164 BE/OBJ NO: [] UR 551040N 0612255E 25X1
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 3-F1 25X1
COMIREX NO: []

DIA IIM 5B1-52750-78 APR 78 [] SEC CLASS: 14B [] 4P ACCN: 5083537 25X1
CHELYABINSK MEDICAL VEHICLE STORAGE FAC IDENT UR 550902N 0611755E
WAC NO : 0164 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B3-52802-78 18 APR 78 [] SEC CLASS: 13 [] 2P ACCN: 5083539 25X1
TULA AIRFIELD NORTH
WAC NO : 0167 BE/OBJ NO: [] UR 541423N 0373600E 25X1
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 83-A 25X1
COMIREX NO: []

DIA IIM 5B3-52805-78 18 APR 78 [] SEC CLASS: 13 [] 2P ACCN: 5083540 25X1
SEMIPALATINSK AIRFIELD WEST
WAC NO : 0239 BE/OBJ NO: [] UR 502415N 0794530E 25X1
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 27 25X1
COMIREX NO: []

DIA IIM 5B3-52807-78 19 APR 78 [] SEC CLASS: 13 [] 2P ACCN: 5083541 25X1
ZHELUDOK AIRFIELD
WAC NO : 0168 BE/OBJ NO: [] UR 533510N 0250006E 25X1
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 95 25X1
COMIREX NO: []

DIA IIM 5B3-52808-78 18 APR 78 [] SEC CLASS: 13 [] 2P ACCN: 5083542 25X1
LEBEDIN AIRFIELD
WAC NO : 0234 BE/OBJ NO: [] UR 503312N 0343159E 25X1
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 25 25X1
COMIREX NO: []

DIA IIM 5B3-52810-78 19 APR 78 [] SEC CLASS: 13 [] 2P ACCN: 5083543 25X1

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		NOVO BOGDANOVKA AIRFIELD		UR 470615N 0351630E		
		WAC NO : 0249		NPIC NO : - 24-D		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52813-78	19 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354425X1
		BORODYANKA AIRFIELD		UR 504010N 0295508E		
		WAC NO : 0233		NPIC NO : - 126		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52814-78	18 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354525X1
		RUZHANY AIRFIELD		UR 525209N 0244930E		
		WAC NO : 0168		NPIC NO : - 172		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52816-78	19 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354625X1
		SHPIKOV AIRFIELD		UR 485044N 0283642E		
		WAC NO : 0233		NPIC NO : - 127		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52820-78	19 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354725X1
		CHERVONAYA KAMENKA AIRFIELD		UR 483704N 0332333E		
		WAC NO : 0233		NPIC NO : - 162		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52821-78	19 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354825X1
		SLUTSK AIRFIELD SW		UR 525807N 0272526E		
		WAC NO : 0168		NPIC NO : - 67-C		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52822-78	19 APR 78	[]	SEC CLASS: 13	2P ACCN: 508354925X1
		OLSUFYEVO AIRFIELD		UR 533622N 0334309E		
		WAC NO : 0167		NPIC NO : - 131		25X1
		IDHS CODE: []		COMIREX NO: []		25X1
		BE/OBJ NO: []				
		EPF CAT : 05A				
DIA	IIM	5B3-52823-78	19 APR 78	[]	SEC CLASS: 13	1P ACCN: 508355225X1

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OLKHOVKA AIRFIELD		UR 494401N 0443112E		
WAC NO : 0235		BE/OBJ NO: []	NPIC NO : - 36	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
DIA	IIM 5B3-52824-78 18 APR 78	[]	SEC CLASS: 13 []	2P ACCN: S083551 25X1
KOCHUBEYEVKA AIRFIELD		UR 494444N 0350132E		
WAC NO : 0234		BE/OBJ NO: []	NPIC NO : - 70-A	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
DIA	IIM 5B3-52827-78 19 APR 78	[]	SEC CLASS: 13 MSN: []	2P ACCN: S083552 25X1
DOLON AIRFIELD SW		UR 501523N 0790416E		
WAC NO : 0239		BE/OBJ NO: []	NPIC NO : - 30	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
DIA	IIM 5B3-52828-78 19 APR 78	[]	SEC CLASS: 13 MSN: []	2P ACCN: S083553 25X1
GORODEYA AIRFIELD		UR 531920N 0263451E		
WAC NO : 0168		BE/OBJ NO: []	NPIC NO : - 173	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
DIA	IIM 5B3-52829-78 19 APR 78	[]	SEC CLASS: 13 []	2P ACCN: S083554 25X1
BOBR AIRFIELD EAST		UR 542233N 0292238E		
WAC NO : 0168		BE/OBJ NO: []	NPIC NO : - 9-B	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
[] 25X1				
DIA	IIM 5B3-52770-78 18 APR 78	[]	SEC CLASS: 13 []	2P ACCN: S083556 25X1
VOLSK AIRFIELD		UR 520151N 0471920E		
WAC NO : 0166		BE/OBJ NO: []	NPIC NO : - 33-F	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []	25X1
DIA	IIM 5B3-52773-78 19 APR 78	[]	SEC CLASS: 13 []	2P ACCN: S083557 25X1
DNO AIRFIELD		UR 574708N 0295902E		

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	WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 136		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52778-78	19 APR 78	[]	SEC CLASS: 13 []	2P ACCN: 5083559 25X1
	AKIMOVKA AIRFIELD		UR 464310N 0350155E		25X1
	WAC NO : 0249	BE/OBJ NO: []	NPIC NO : - 83		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52779-78	18 APR 78	[]	SEC CLASS: 13 []	2P ACCN: 5083559 25X1
	VINNITSA AIRFIELD		UR 491354N 0283316E		25X1
	WAC NO : 0233	BE/OBJ NO: []	NPIC NO : - 64-C		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52780-78	18 APR 78	[]	SEC CLASS: 13 []	2P ACCN: 5083560 25X1
	VINNITSA AIRFIELD EAST		UR 491438N 0283656E		25X1
	WAC NO : 0233	BE/OBJ NO: []	NPIC NO : - 64-B		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52788-78	19 APR 78	[]	SEC CLASS: 13 []	2P ACCN: 5083561 25X1
	LIKHO SLAVL/KRYUCHKOVO AIRFIELD		UR 570415N 0353002E		25X1
	WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 60-A		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA NBRG	NDA07-5026-78	14 APR 78		SEC CLASS: 05G MSN:	1P ACCN: 5083562
	LOYANG MILITARY AREA 1		CH 3441 N 11228 E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO :		25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:		25X1
DIA NBRG	NDA07-5027-78	14 APR 78		SEC CLASS: 05G MSN:	1P ACCN: 5083563
	LOYANG ARMY BARRACKS + HEADQUARTERS AL6		CH 343935N 1122815E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-M1		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:		25X1
DIA NBRG	NDA07-5028-78	14 APR 78		SEC CLASS: 05G MSN:	1P ACCN: 5083564
	CHENWACHIEH ARMY BARRACKS AL1		CH 344934N 1122632E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-L1		25X1

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	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			
DIA	NBRG	NDA07-5029-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083565
	LUNG MEN ARMY BARRACKS AL1			CH 343400N 1123000E		
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-F7			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5030-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083566
	LOYANG ARMY BARRACKS EAST AL7			CH 344154N 1123136E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO :			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:			
DIA	NBRG	NDA07-5031-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083567
	ICHUAN ARMY BARRACKS AL1			CH 342505N 1122440E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 121			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			
DIA	NBRG	NDA07-5032-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083568
	HSINAN MILITARY AREA 1			CH 3443 N 11209 E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO :			25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:			
DIA	NBRG	NDA07-5033-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083569
	TIEH MEN ARMY BARRACKS AL1			CH 344300N 1120720E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 39-B2			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5034-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083570
	MIENCHIH ARMY BARRACKS AL1			CH 344547N 1114450E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 70-A6			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:			
DIA	NBRG	NDA07-5035-78	14 APR 78	SEC CLASS: 05G MSN:	1P	ACCN: S083571
	LOYANG ARMY BARRACKS AL5			CH 343830N 1122055E		25X1
	WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-B2			25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:			

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DIA	NBRG	NDA07-5036-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083572
		YIYANG ARMY BARRACKS AL1			CH 343214N 1121017E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 17-K4		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5037-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083573
		YINGHAO ARMY BARRACKS AL1			CH 344700N 1113850E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 25-D2		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5038-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083574
		KUNGHSIEN MILITARY AREA 1			CH 3446 N 11258 E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35		COMIREX NO:		25X1
DIA	NBRG	NDA07-5039-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083575
		KUNGHSIEN ARMY BARRACKS AL2/HQ INFANTRY DIV			CH 344330N 1130000E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 69-A		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5040-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083576
		YENSHIH ARMY BARRACKS NORTH			CH 344420N 1124500E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 38-A4		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5041-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083577
		PINGLO ARMY BARRACKS AL1			CH 344510N 1123408E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 17-06		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5042-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: 5083578
		HSIAOKUAN ARMY BARRACKS AL1			CH 344245N 1131005E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 37-E		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1

1538
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA	NBRG	NDA07-5043-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083579
		TENGFENG ARMY BARRACKS AL3			CH 342730N 1130205E		
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 126-A2		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5044-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083580
		NANYANG MILITARY AREA 1			CH 3300 N 11232 E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35		COMIREX NO:		25X1
DIA	NBRG	NDA07-5045-78	12 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083581
		NANYANG ARMY BARRACKS AL3/HQ INFANTRY DIV			CH 330305N 1123420E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 19-A3		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5046-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083582
		CHENPING ARMY BARRACKS AL1			CH 330230N 1121700E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5047-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083583
		FANGCHENG ARMY BARRACKS			CH 331410N 1130120E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 139-A		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5048-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083584
		SHICHI ARMY BARRACKS AL1			CH 330320N 1125830E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 161		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5049-78	14 APR 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083585
		TANGHO ARMY BARRACKS			CH 324150N 1124800E		25X1
		WAC NO : 0385	BE/OBJ NO: []		NPIC NO : - 157		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
CIA	STDY	WI10018J-77	NOV 77	SEC CLASS: 25	MSN:	94P	ACCN: S083586

1539
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

MISSILES, ANTISHIP/ANTISUBMARINE MISSILE SYS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:
MISSILES, ASM SYSTEMS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40J COMIREX NO:
MISSILES, CRUISE MISSILE SYSTEMS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40K COMIREX NO:
MISSILES, NAVAL MISSILE SYSTEMS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:

THIS HANDBOOK OF SOVIET ANTISHIP AND ANTISUBMARINE SYSTEMS INCORPORATES INFORMATION OBTAINED FROM THE NAVY, AF, NSA, DIA + CIA CONTRACTORS.
THE MISSILE CHARACTERISTICS PRESENTED WERE DERIVED FROM ALL SOURCES AVAILABLE THROUGH 30 NOVEMBER 1977.*

NPIC TP MAR 78 SEC CLASS: 13 MSN: 14P ACCN: S08358725X1

PHOTO, MICROSCOPE/AERIAL FILM STUDY
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:

A TEST WAS CONDUCTED TO DETERMINE WHETHER CURRENT AND PROTOTYPE PI VIEWING INSTRUMENTS HAVE SUFFICIENT OPTICAL QUALITY, MAGNIFICATION, AND ILLUMINATION TO TAKE ADVANTAGE OF THE IMAGERY BEING RETURNED ON THE NEW MONO DISPERSE, CUBIC GRAINED FILMS (SO-209, SO-112, AND A-1500). PAIRS OF IDENTICAL FILM CHIPS, PREPARED FROM MODEL PHOTOGRAPHY AT DIFFERENT SCALES AND CONTRASTS, WERE COMPARED BY PLACING ONE CHIP IN AN ADVANCED COMPARATOR AS A REFERENCE INSTRUMENT AND THE OTHER CHIP IN ONE OF THE PI INSTRUMENTS. DIFFERENCES IN NIIRS VALUES, IF ANY, WERE NOTED, AND MAGNIFICATION AND ILLUMINATION LEVELS CHOSEN BY THE PIS WERE RECORDED. THE DATA WAS ANALYZED STATISTICALLY.
IT WAS CONCLUDED THAT THE ZOOM 240 AND THE DYNAZOOM ARE CAPABLE OF HANDLING THE NEW FILMS, BUT THAT HIGHER MAGNIFICATION AND ILLUMINATION LEVELS THAN PRESENTLY AVAILABLE WITH A 2240/1540 WOULD BE USED IF AVAILABLE.

ARMY PIM PIM035-78 30 MAR 78 SEC CLASS: 14A 3P ACCN: S08358725X1

KOIN NI RADIO RELAY STATION KN 402520N 1262020E
WAC NO : 0290 BE/OBJ NO: NPIC NO : - 228-A
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) PROVIDES A DESCRIPTION OF KOIN-NI RADIO RELAY STATION.

1540
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADIO RELAY STATION DISPLAYING THE STATION ANTENNAS AND THEIR ORIENTATIONS.*

ARMY PIM PIM036-78 30 MAR 78 [] SEC CLASS: 14A [] 3P

ACCN: S083589

25X1

PUJON RADIO RELAY STATION

WAC NO : 0290
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25D

KN 402630N 1274400E
NPIC NO : - 72
COMIREX NO: []

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) PROVIDES A DESCRIPTION OF PUJON RADIO RELAY STATION. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADIO RELAY STATION DISPLAYING THE STATION ANTENNAS AND THEIR ORIENTATIONS.*

ARMY PIM PIM039-78 30 MAR 78 [] SEC CLASS: 14A [] 3P

ACCN: S083590

25X1

HWANGSUWON NI RADIO RELAY STATION

WAC NO : 0290
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25D

KN 404630N 1280300E
NPIC NO : - 179-B
COMIREX NO: []

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) PROVIDES A DESCRIPTION OF HWANGSUWON-NI RADIO RELAY STATION. IT INCLUDES AN ANNOTATED PHOTOGRAPH OF THE RADIO RELAY STATION DISPLAYING THE STATION ANTENNAS AND THEIR ORIENTATIONS.*

CIA STDY WI10007J-78 MAR 78 [] SEC CLASS: 25 MSN: 16P

ACCN: S083591

25X1

BALAKLAVA MTC SLBM POP-UP TEST ACTIVITY

WAC NO : 0250
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 40G

UR 443014N 0333122E
NPIC NO : - 3-A4
COMIREX NO: []

25X1
25X1

CIA STDY WI10003J-78 JAN 78 [] SEC CLASS: 25 MSN: 17P

ACCN: S083592

25X1

PECHORA PHASED-ARRAY RADAR FACILITY

WAC NO : 0093
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25A

UR 651230N 0571720E
NPIC NO : - 29-A
COMIREX NO: []

25X1
25X1

THE USSR IS CONSTRUCTING A NEW TYPE OF LARGE PHASED-ARRAY RADAR NEAR THE CITY OF PECHORA, NEAR THE NORTHERN COAST OF THE SOVIET UNION. THE RADAR IS NOT EXPECTED TO BEGIN OPERATING BEFORE 1979. THERE ARE ONLY TWO TECHNICALLY PLAUSIBLE ROLES FOR THE PECHORA RADAR-BALLISTIC MISSILE EARLY WARNING (BMEW) OR ANTIBALLISTIC MISSILE (ABM) BATTLE MANAGEMENT. OIA BELIEVES THE RADAR IS INTENDED TO SERVE THE BMEW ROLE. THE ROLE OF THE RADAR IS PARTICULARLY IMPORTANT, SINCE THE ABM TREATY CONCLUDED BETWEEN THE US AND THE USSR IN 1972 PERMITS THE DEPLOYMENT OF BMEW RADARS AT LOCATIONS ALONG THE PERIPHERY OF THE COUNTRY, BUT PROHIBITS DEPLOYMENT OF ABM RADARS AT SUCH LOCATIONS.

OIA'S MAJOR CONCERN HAS BEEN THAT THE PECHORA RADAR MIGHT BE ONE OF THE LONG LEAD-TIME BATTLE

1541

TOP SECRET CHESS RUFF

25X1

[REDACTED]

TOP SECRET CHESS RUFF [REDACTED]

25X1
25X1

MANAGEMENT RADAR COMPONENTS OF AN OTHERWISE RAPIDLY DEPLOYABLE ABM SYSTEM. INDEED, OIA BELIEVES THE RADAR WILL HAVE TECHNICAL CHARACTERISTICS AND CAPABILITIES SIMILAR TO THE ABM BATTLE MANAGEMENT RADARS THE SOVIETS HAVE DEPLOYED AT MOSCOW IN SUPPORT OF THE COLLOCATED MOSCOW ABM SYSTEM. THUS, THE PECHORA RADAR PROBABLY WILL BE ABLE TO OBTAIN TRACKING AND PREDICTION DATA OF SUFFICIENT ACCURACY TO FUNCTION IN AN ABM BATTLE MANAGEMENT ROLE.

25X1 (

1542
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA STDY SR10018J-78

FEB 78

SEC CLASS: 25 Y. MSN:

21P

ACCN: 5083595

25X1

MILITARY, ARMS BUILDUP

WAC NO :
IDHS CODE:BE/OBJ NO:
EPF CAT : 35LY
NPIC NO :
COMIREX NO:

THE MILITARY REGIME HEADED BY COLONEL MUAMMAR QADHAFI HAS ASSIGNED HIGH PRIORITY TO EXPANDING AND IMPROVING THE LIBYAN MILITARY SINCE IT DETHRONED KING IDRIS IN 1969. THE ARMED FORCES HAVE GROWN FROM ABOUT 9,000 TO AT LEAST 43,000 MEN, AND QADHAFI REPORTEDLY WANTS TO INCREASE THE FIGURE TO MORE THAN 100,000 BY THE TURN OF THE DECADE. THE WEAPONS INVENTORIES OF THE SERVICES, WITH THE EXCEPTION OF THE NAVY, HAVE MUSHROOMED AS THE RESULT OF AGREEMENTS WITH WEST AND EAST EUROPEAN NATIONS AND THE SOVIET UNION, AND SUBSTANTIAL QUANTITIES OF WEAPONS ARE ON ORDER FOR ALL THE SERVICES. THE CONTINUING ARMS BUILDUP IS IMPORTANT IN TERMS OF LIBYA'S OWN MILITARY CAPABILITIES AND OF ITS ABILITY TO PROVIDE ARMS TO OTHERS.

THIS ASSESSMENT REVIEWS LIBYAN ARMS PROCUREMENT SINCE THE COUP AND EXAMINES PROSPECTS FOR FUTURE WEAPONS DELIVERIES. IT ASSESSES THE IMPACT OF THE ARMS BUILDUP ON THE ARMED FORCES, QADHAFI'S MOTIVATIONS FOR AMASSING WEAPONS, AND LIBYAN CAPABILITIES TO ASSIST THE MAJOR ARAB CONFRONTATION STATES IN THE EVENT OF ANOTHER WAR WITH ISRAEL. IT ALSO REVIEWS LIBYA'S MILITARY TIES WITH THE SOVIET UNION.

A KEY ASSUMPTION OF THIS ASSESSMENT IS THAT PRESIDENT QADHAFI WILL REMAIN IN POWER DURING THE NEXT FEW YEARS. HIS REPLACEMENT BY A PERSON OR GROUP OF MEN WHOSE OUTLOOK IS MARKEDLY DIFFERENT WOULD, OF COURSE, HAVE A PROFOUND EFFECT ON MANY OF THE ISSUES ADDRESSED IN THIS REPORT.

THIS PAPER IS BASED ON INFORMATION DERIVED FROM SATELLITE PHOTOGRAPHY

PHOTOGRAPHY WAS USED EXTENSIVELY IN DETERMINING THE STATUS OF MILITARY CONSTRUCTION PROGRAMS AND IN FORMULATING ESTIMATES OF KEY WEAPONS INVENTORIES. INTERCEPTED COMMUNICATIONS, IN CONJUNCTION WITH PHOTOGRAPHY, PROVIDED THE BULK OF THE ORDER-OF-BATTLE DATA.

MOST OF THE INFORMATION ON ARMS CONTRACTS THERE ARE NUMEROUS GAPS AND UNCERTAINTIES IN THIS INFORMATION, PARTICULARLY WITH REGARD TO THE RELATIONSHIP OF THESE CONTRACTS TO PLANS FOR EXPANSION OF THE ARMED FORCES AND THE VALUE AND PROVISIONS OF SOVIET-LIBYAN ARMS AGREEMENTS

25X1
25X1

25X1

25X1

25X1

1543
TOP SECRET CHESS RUFF

TOP SECRET CHESSE RUFF

25X1

DIA STDY DST1830S-443-78 MAR 78 SEC CLASS: 25 MSN: 51P ACCN: 508359725X1

MILITARY, GROUND FORCE WEAPONS R+D RESOURCES CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 356 COMIREX NO:

THIS SUPPLEMENT IS PUBLISHED ON AN 'AS-REQUIRED' BASIS TO PROVIDE AN UPDATE ON THE MANNER IN WHICH THE PEOPLE'S REPUBLIC OF CHINA (PRC) IS ORGANIZED AND FUNCTIONS IN SUPPORT OF THE DEVELOPMENT OF GROUND-FORCE WEAPONS AND MATERIEL.

THIS SUPPLEMENT INCLUDES A REVIEW OF THE STATUS OF SELECTED AGENCIES INVOLVED WITH MILITARY-PRODUCT RESEARCH AND DEVELOPMENT, A DISCUSSION OF CURRENT DEVELOPMENTS IN PRC GROUND-FORCE WEAPON SYSTEMS, AND A DISCUSSION OF THE PROBABLE EFFECTS OF PRC NATIONAL-LEVEL OBJECTIVES ON FUTURE WEAPONS DEVELOPMENT.

THE INFORMATION IN THIS DOCUMENT IS NOT INTENDED TO BE USED INDEPENDENTLY; IT IS SUPPLEMENTARY INFORMATION TO BE USED IN CONJUNCTION WITH THE PRIMARY DOCUMENT, DST-1830S-443-75-SA0.

DIA STDY DST2610R-358-78 15 MAR 78 SEC CLASS: 21 MSN: 33P ACCN: 508359825X1

ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION CZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION HU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION RO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS, IFF SYSTEMS FRONTAL AVIATION BU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:

IN TIME OF WAR, WARSAW PACT NATIONS WILL NEED TO OPERATE AIRCRAFT, PARTICULARLY INTERCEPTOR, FIGHTER-BOMBER, AND RECONNAISSANCE AIRCRAFT, OVER AREAS PROTECTED BY GROUND-BASED WEAPONS. PROVISION MUST BE MADE FOR IDENTIFYING FRIENDLY AIRCRAFT SO THEY ARE NOT ACCIDENTALLY ENGAGED BY THE GROUND-BASED WEAPONS. IFF (IDENTIFICATION, FRIEND OR FOE) IS CURRENTLY ACCOMPLISHED BY A NUMBER OF ELECTRONIC, PROCEDURAL,

1544
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AND INFORMATIONAL SYSTEMS. THE MIX OF SYSTEMS USED AND THE RELATIVE IMPORTANCE OF EACH DEPEND UPON THE LOCAL SITUATION. SOME GROUND-BASED WEAPONS DO NOT HAVE ELECTRONIC IFF DEVICES, AND SOME ARE NOT EQUIPPED WITH GOOD INFORMATIONAL SYSTEMS, REQUIRING THEM TO DEPEND UPON PROCEDURAL SCHEMES. THIS IS ESPECIALLY TRUE FOR LOWER-LEVEL, HIGHLY MOBILE SYSTEMS SUCH AS SA-7, SA-9, AND ZSU-23-4.

THE RSNB SYSTEM, A NAVIGATIONAL AID SIMILAR TO THE US TACAN, HAS A POTENTIAL FOR KEEPING TRACK OF FRIENDLY AIRCRAFT, WHICH SUGGESTS THAT RSNB COULD FULFILL PART OF THE NEED FOR COLLECTION OF IFF INFORMATION.

THE SOVIET IFF SYSTEMS ARE ONLY marginally CAPABLE OF MEETING THEIR NEEDS. POOR IFF CAPABILITY RESTRICTS MISSION FLEXIBILITY OF SUPPORTING AIRCRAFT. THERE IS EVIDENCE OF WORK ON VARIOUS ASPECTS OF THE IFF PROBLEM.

DIA STDY DST2610R-358-78 15 MAR 78

SEC CLASS: 25

MSN:

39P

ACCN: 5083599

25X1

ELECTRONICS, COMSAT PROGRAM CIVIL

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

ELECTRONICS, MOLNIYA-1/2/3 SYSTEMS

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

ELECTRONICS, ORBITA-1 SYSTEM

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

ELECTRONICS, STATIONAR-1 COMSAT FACILITIES

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

ELECTRONICS, MARS COMSAT STA TRANSPORTABLE

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

ELECTRONICS, GRADIENT SPACE COMMO TERMINAL

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C

UR
NPIC NO :
COMIREX NO:

THE SOVIET UNION HAS EMBARKED UPON AN EXTENSIVE CIVIL COMMUNICATION SATELLITE (COMSAT) PROGRAM IN AN EFFORT TO UPGRADE ITS NATIONAL WIDEBAND TRANSMISSION NETWORK. THE TECHNICAL CAPABILITIES OF SOVIET COMMUNICATION SATELLITE SYSTEMS HAVE SYSTEMATICALLY IMPROVED SINCE THEIR ORIGINAL COMSAT LAUNCHING IN 1965.

WHILE THE CIVIL COMMUNICATION SATELLITE PROGRAM IS MANAGED BY THE MINISTRY OF COMMUNICATION (MOC), SIGNIFICANT MINISTRY OF DEFENSE (MOD) TRAFFIC HAS BEEN OBSERVED ON THE CIVIL SYSTEM. ANY ASSESSMENT OF SOVIET CIVIL COMMUNICATION SATELLITE SYSTEMS MUST CONSIDER THE LEVEL OF POSSIBLE MILITARY COMMUNICATION AUGMENTATION. SUCCESSFUL WARTIME EMPLOYMENT OF SOVIET COMMAND AND CONTROL (C2) SYSTEMS WILL BE ENHANCED BY THE WIDEBAND COMMUNICATION ASSETS OF THE CIVIL COMMUNICATION SATELLITE PROGRAM OF THE USSR.

THE REPORT THAT FOLLOWS BRIEFLY REVIEWS THE DEVELOPING SOVIET COMMUNICATIONS SATELLITE PROGRAM AND INTERSPUTNIK ORGANIZATION. RECENT TECHNICAL ACHIEVEMENTS BY THE SOVIETS TO IMPROVE THEIR COMSAT CAPABILITY

1545
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ARE ALSO SUMMARIZED.

DIA STDY DST2610R-358-78 28 FEB 78 SEC CLASS: 25 MSN: 50P ACCN: S08360025X1

PALATKI COMMAND CONTROL XMTR FAC BKR HARD U/I UR 544350N 0352245E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 18
IDHS CODE: EPF CAT : 25D COMIREX NO:
OLENKOVO COMMAND CONTROL RCVR FACIL BKR HARD UR 543250N 0380410E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 196-A
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

25X1
25X1

THIS REPORT EXAMINES TWO LARGE, HARDENED, HIGH-FREQUENCY RADIO FACILITIES UNDER CONSTRUCTION IN THE MOSCOW AREA OF THE SOVIET UNION FOR THE PURPOSE OF ESTIMATING THEIR FUNCTIONAL USE AND SUBORDINATION. THE FACILITIES, ONE A TRANSMITTER AND THE OTHER A RECEIVER, ARE IN LATE STAGES OF CONSTRUCTION, BUT ARE NOT KNOWN TO BE OPERATIONAL. THE FACILITIES ARE PALATKI UNIDENTIFIED COMMAND AND CONTROL TRANSMITTER FACILITY/BUNKERED/HARD AND OLENKOVO UNIDENTIFIED COMMAND AND CONTROL RECEIVER FACILITY/BUNKERED/HARD. THE PALATKI TRANSMITTER AND OLENKOVO RECEIVER FACILITIES ARE POTENTIALLY SIGNIFICANT ADDITIONS TO THE MOSCOW AREA COMMAND AND CONTROL COMMUNICATIONS CAPABILITY. BOTH FACILITIES CONTAIN BUNKERED CONTROL BUILDINGS, CONVENTIONAL ANTENNAS, BURIED ANTENNAS, AND UNUSUAL ANTENNA ARRAYS.

25X1

DIA STDY DDB1710-006-78 MAR 78 SEC CLASS: 13 MSN: 24P ACCN: S0836025X1

OLENEGORSK PHASED-ARRAY RADAR FACILITY NEW UR 6809 N 03327 E
WAC NO : 0051 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:
PECHORA PHASED-ARRAY RADAR FACILITY UR 651230N 0571720E

25X1
25X1

1546
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0093	BE/OBJ NO: []	NPIC NO : - 29-A
IDHS CODE: []	EPF CAT : 25A	COMIREX NO: []
SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH	UR 463600N 0743000E	
WAC NO : 0245	BE/OBJ NO: []	NPIC NO : - 60-A
IDHS CODE: []	EPF CAT : 25A	COMIREX NO: []
LYAKI PHASED-ARRAY RADAR FACILITY	UR 405208N 0474913E	
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 156
IDHS CODE: []	EPF CAT : 25A	COMIREX NO: []

25X1
25X1
25X1
25X1
25X1
25X1.1

THE SOVIET UNION IS INVOLVED IN A MAJOR ENDEAVOR TO ENHANCE ITS BALLISTIC MISSILE EARLY WARNING DEFENSE RADAR CAPABILITY. THIS IS DEMONSTRATED BY THE DISCOVERY OF FOUR NEW FACILITIES, IN VARIOUS STAGES OF CONSTRUCTION, WHICH REVEAL THE LATEST IN SOVIET ADVANCED DESIGN PHASED-ARRAY ANTENNAS.

THE NEW PHASED-ARRAY RADAR COMPLEXES ARE BEING BUILT AT PECHORA, IN THE NORTHWESTERN USSR; NEAR LYAKI IN THE TRANSCAUCASUS REGION; AND AT THE HEN HOUSE FACILITIES OF OLENEGORSK AND SARY SHAGAN. THEY WILL SIGNIFICANTLY EXPAND THE CAPABILITIES OF THE EXISTING SOVIET ABM RADAR COVERAGE BY PROVIDING FOR ABM BATTLE MANAGEMENT AS WELL AS PROVIDING COVERAGE WHERE EARLY WARNING COVERAGE DOES NOT PRESENTLY EXIST. THE PECHORA PHASED-ARRAY FACILITY IS BORESIGHTED TOWARD THE WEST COAST OF THE UNITED STATES AND, IN CONJUNCTION WITH THE HEN HOUSE RADARS OF OLENEGORSK AND SKRUNDA, WILL COMPLETE THE ICBM AND SLBM DETECTION CAPABILITY ACROSS THE NORTHWESTERN APPROACHES TO THE SOVIET UNION. THE LYAKI FACILITY, BORESIGHTED TOWARD THE INDIAN OCEAN, WILL COMPLETE SIMILAR COVERAGE ACROSS THE SOUTHWESTERN APPROACHES. MOREOVER, THE PECHORA AND LYAKI COMPLEXES AND THE OLENEGORSK AND SARY SHAGAN SYSTEMS, IN CONCERT WITH THEIR COLLOCATED HEN HOUSE RADARS PROVIDE THE RADAR CAPABILITY FOR ABM BATTLE MANAGEMENT FOR FUTURE ABM DEPLOYMENT.

SINCE EMPLOYMENT OF ANY OF THESE NEW LARGE PHASED-ARRAY RADARS AS ABM BATTLE MANAGEMENT COMPONENTS IS CONTRARY TO THE PROVISIONS OF THE TREATY BETWEEN THE US AND USSR ON THE LIMITATION OF ARM SYSTEMS, THEIR POTENTIAL FOR BATTLE MANAGEMENT ROLES HAS GENERATED A HIGH LEVEL OF INTEREST. CONSEQUENTLY THE UNDERSTANDING OF THESE RADARS - BOTH THEIR INHERENT AND THEIR POTENTIAL CAPABILITY IS EXTREMELY IMPORTANT.

DIA STDY DDB2680-023-78

FEB 78

SEC CLASS: 25

MSN:

36P

ACCN: 5083604

25X1

MISSILES, DEVELOPMENTS

WAC NO :

IDHS CODE:

AIRCRAFT, DEVELOPMENTS

WAC NO :

IDHS CODE:

ELECTRONICS, DEVELOPMENTS

WAC NO :

IDHS CODE:

MILITARY, DEVELOPMENTS

WAC NO :

IDHS CODE:

NAVAL, DEVELOPMENTS

BE/OBJ NO:

EPF CAT : 40

BE/OBJ NO:

EPF CAT : 05

BE/OBJ NO:

EPF CAT : 25

BE/OBJ NO:

EPF CAT : 35

UR

NPIC NO :

COMIREX NO:

UR

NPIC NO :

COMIREX NO:

UR

NPIC NO :

COMIREX NO:

UR

NPIC NO :

COMIREX NO:

UR

1547

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:
DIA STDY DST1000S-288-78 MAR 78 [] SEC CLASS: 25A MSN: 128P ACCN: S083605 25X1

MISSILES, DEFENSIVE SYSTEMS TRENDS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

THE DEFENSIVE MISSILE SYSTEMS TRENDS - U.S.S.R. COVERS SURFACE-TO-AIR (SAM) AND ANTIBALLISTIC MISSILE (ABM) SYSTEMS OF THE SOVIET UNION WHICH ARE OPERATIONAL, DEVELOPMENTAL, AND PROJECTED. THIS STUDY PRESENTS SYSTEM TRENDS AND NEW OR MODIFIED SYSTEMS EXPECTED TO BE DEPLOYED DURING THE NEXT 10-YEAR PERIOD. THE SOVIET INTENT TO MODIFY CURRENT SYSTEMS OR TO DEVELOP NEW SYSTEMS CANNOT BE DETERMINED IN MOST CASES, BUT THIS STUDY PRESENTS THEIR TECHNOLOGICAL CAPABILITY TO DEVELOP SUCH SYSTEMS.

DIA STDY DST1060R-421-78 MAR 78 [] SEC CLASS: 25F MSN: 62P ACCN: S083606 25X1

MISSILES, SA-X-11 MISSILE SYSTEM UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40C COMIREX NO:

THIS REPORT PRESENTS A PRELIMINARY ESTIMATE OF THE NEW MOBILE TACTICAL SURFACE-TO-AIR MISSILE SYSTEM (SA-X-11) CURRENTLY UNDER DEVELOPMENT. THE SYSTEM DEFINITION, PHYSICAL CHARACTERISTICS, AND OPERATIONAL ESTIMATES ARE BASED ON ANALYSIS OF COMMUNICATIONS INTELLIGENCE, SIGNAL INTELLIGENCE, TELEMETRY, ELECTRONIC INTELLIGENCE, AND PHOTOGRAPHY.

NPIC MEMO [] 15 MAY 78 [] SEC CLASS: 14B MSN: [] 3P ACCN: S083607 25X1

NYIREGYHAZA RADIO RELAY STATION TOWERS	HU 475630N 0214520E	
WAC NO : 0251	NPIC NO : - 78-D1	25X1
IDHS CODE: []	COMIREX NO:	25X1
TISZAFOLDVAR RADIO RELAY STATION TOWERS	HU 470101N 0201507E	
WAC NO : 0251	NPIC NO : - 280	25X1
IDHS CODE: []	COMIREX NO:	25X1
RACALMAS RADIO RELAY STATION TOWERS	HU 470230N 0185640E	
WAC NO : 0252	NPIC NO : - 184	25X1
IDHS CODE: []	COMIREX NO:	25X1
DOROG RADIO RELAY STATION	HU 474350N 0185640E	
WAC NO : 0252	NPIC NO : - 185	25X1
IDHS CODE: []	COMIREX NO:	25X1
PAKS RADIO RELAY STATION TOWERS	HU 463520N 0183440E	
WAC NO : 0252	NPIC NO : - 19-D1	25X1
IDHS CODE: []	COMIREX NO:	25X1

1548
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

PAPA ELECTRONICS FACILITY U/I

WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25
PATKA RADIO RELAY + RADIO COMMO STA SW TOWERS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D
GERECSE MOUNTAIN RADIO RELAY STATION TOWERS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D
SOPRON RADIO RELAY/TV BROADCAST STATION TWRS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D
SOPRON RADIO RELAY/TV BROADCAST STATION TWRS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25B
SZOMBATHELY AM BROADCAST STATION TOWERS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25B
BEKESCSBA RADIO RELAY STATION TOWERS
WAC NO : 0251 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D
PECS TV RELAY STATION TOWERS
WAC NO : 0252 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25B

HU 471745N 0174510E
NPIC NO : - 41-C
COMIREX NO:
HU 471520N 0182710E
NPIC NO : - 53-G
COMIREX NO:
HU 474011N 0182911E
NPIC NO : - 30-L
COMIREX NO:
HU 473100N 0163500E
NPIC NO :
COMIREX NO:
HU 473100N 0163500E
NPIC NO :
COMIREX NO:
HU 471400N 0163700E
NPIC NO :
COMIREX NO:
HU 464130N 0210200E
NPIC NO : - 10-A6
COMIREX NO:
HU 460550N 0181320E
NPIC NO : - 44-E
COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

25X1

25X1

NPIC MEMO

23 OCT 78

SEC CLASS: 14D MSN:

0002P

ACCN: 5083608

USSURIYSK MOON FOUR NAVIGATION STATION SEARCH

WAC NO : 0291 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25
RAZDOLNOYE RADIO COMMO + AM BDCST XMTR CENTER
WAC NO : 0291 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 4348 N 13158 E
NPIC NO : -
COMIREX NO:
UR 433218N 1315607E
NPIC NO : -
COMIREX NO:

25X1

25X1

25X1

25X1

1549

TOP SECRET CHESS RUFF

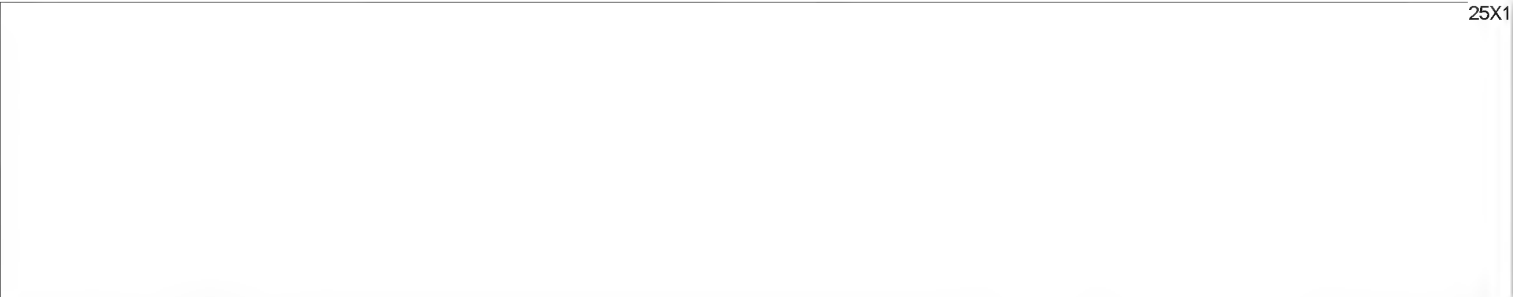
25X1



TOP SECRET CHESS RUFF



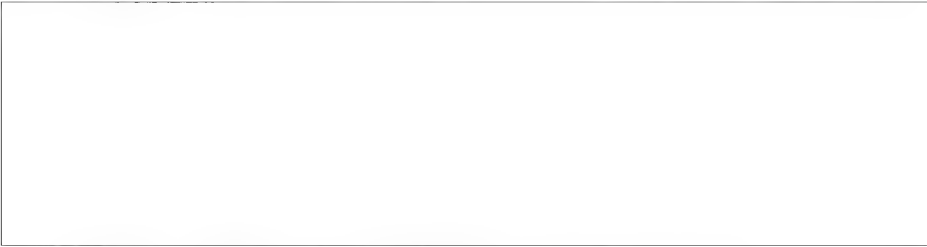
25X1



25X1

AF STDY SEN SHLD 02-77 DEC 77  SEC CLASS: 25 MSN: 41P ACCN: S08361125X1

25X1



PHOTO, RECONNAISSANCE SAT ACTIVITY USSR/CHINA UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPE CAT : 65 COMIREX NO:



25X1

1550
TOP SECRET CHESS RUFF



25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA05-0017-77

APR 78

SEC CLASS: 14B MSN:

18P

ACCN: S083637 25X1

KRECHEVITSY AIRFIELD

WAC NO : 0153

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05A

UR 583729N 0312255E

NPIC NO : - 30

COMIREX NO:

KRECHEVITSY AIRFIELD GCA SITE

WAC NO : 0153

IDHS CODE:

BE/OBJ NO:

EPF CAT : 25H

UR 583729N 0312255E

NPIC NO :

COMIREX NO:

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KRECHEVITSY AIRFIELD AND ASSOCIATED FACILITIES DURING THE PERIOD SEPTEMBER 1969 THROUGH OCTOBER 1976. THE AIRFIELD, IN WEST EUROPEAN U.S.S.R., SUPPORTS TRANSPORT AIRCRAFT, SIGNIFICANT CHANGES DURING THIS PERIOD INCLUDE THE CONSTRUCTION OF AN AIRCRAFT MAINTENANCE AREA, THE EXTENSION OF THE PARALLEL TAXIWAY, CONSTRUCTION OF EARTH-REVELLED HARDSTANDS, AND AN INCREASE IN POL STORAGE CAPACITY IN POL STORAGE AREAS A AND B AND IN MOTOR POOL E. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,012M X 54M CONCRETE AND ASPHALT MAIN RUNWAY, A 1,973M X 63M SOD AUXILIARY RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATION/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 13,874,680 LITERS, AIRCRAFT MAINTENANCE, ACCOMMODATIONS, TRANSPORTATION, AND UTILITIES. AOB

INCLUDED 3 CANDID, 21 CUB, 1 BEAGLE, AND 4 MASCOT.

25X1
25A1

25X1

1559
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

25X1

NPIC SR SR034-78 APR 78 SEC CLASS: 25B MSN: 6P ACCN: 508363925X1

KHABAROVSK ARMY BKS/HQ SIGNAL BRGD COMMO BN UR 482918N 1352750E
WAC NO : 0204 BE/OBJ NO: NPIC NO : - 7-25
IDHS CODE: EPF CAT : 35A COMIREX NO:
ELECTRONICS, KH-1 COMPUTER/ELECTRONICS VAN UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

25X1
25X1

A NEWLY IDENTIFIED COMMUNICATIONS UNIT WAS OBSERVED IN AN EXERCISE 3.7
NAUTICAL MILES (NM) NORTH OF KHABAROVSK SIGNAL BRIGADE HEADQUARTERS/BARRACKS AL-24 IN THE FAR EAST
MILITARY DISTRICT, USSR. A NEWLY IDENTIFIED VEHICLE, DESIGNATED BY NPIC AS THE KH-1 COMPUTER/ELECTRONICS
VAN WAS ALSO SEEN WITH THIS UNIT. THIS SIGHTING OF THE VAN IN A COMMUNICATIONS EXERCISE WAS THE FIRST
OBSERVATION OF THE VAN ON OVERHEAD PHOTOGRAPHY.*

25X1

25X1

1560
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CIA NOTE ISSN0003K-78 10 APR 78 SEC CLASS: 14 MSN: 15P ACCN: S083641 25X1

MILITARY, AAA SITES CUBAN PRESENCE INDICATORS
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:
 MILITARY, AAA SITES CUBAN PRESENCE INDICATORS
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:
 MILITARY, AAA SITES CUBAN PRESENCE INDICATORS
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:
 CHIRCHIK ELECTROCHEMICAL CMB EXPLO CAUSE POSS
 WAC NO : 0328 BE/OBJ NO: NPIC NO : 412733N 0693440E
 IDHS CODE: EPF CAT : 30F NPIC NO : - 10-B
 AIRCRAFT, BACKFIRE INVENTORY INCREASE
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1
25X1

25X1

MILITARY, ARMORED VEHICLE DEPLOYMENT INCREASE KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:
 ANHSIEN AEROSPACE R+D FAC HYPERVELOCITY RANGE CH 314218N 1042730E
 WAC NO : 0495 BE/OBJ NO: NPIC NO : - 116
 IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1
25X1

CIA INFR IS10082K-78 APR 78 SEC CLASS: 14B MSN: 12P ACCN: S083642 25X1

MILITARY, TANK PROD + REPAIR FACS IDENT GUIDE
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35G COMIREX NO:
 MILITARY, TANK PROD + REPAIR FACS IDENT GUIDE
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35F COMIREX NO:

INCREASED EMPHASIS IN THE INTELLIGENCE COMMUNITY ON THE USE OF IMAGERY IN THE ANALYSIS OF LAND
 ARMAMENTS PRODUCTION IN COMMUNIST NATIONS HAS LED TO THE DEVELOPMENT OF PHOTOGRAPHIC SIGNATURES WHICH MAKE
 IT POSSIBLE TO SEPARATE TANK PRODUCTION PLANTS AND TANK REPAIR FACILITIES INTO FIVE CATEGORIES: THREE FOR
 TANK PRODUCTION AND ONE EACH FOR TANK REBUILDING AND TANK REPAIR. THIS REFERENCE AID IS DESIGNED TO HELP

1561
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IMAGERY ANALYSTS IDENTIFY AND ANALYZE THE FIVE CATEGORIES FROM OVERHEAD PHOTOGRAPHY. THE REFERENCE AID IS DIVIDED INTO TWO PARTS. THE FIRST DESCRIBES THE DIFFERENT CATEGORIES OF TANK PRODUCTION PLANTS AND TANK REPAIR FACILITIES AND PROVIDES AN ANNOTATED PHOTOGRAPH OF EACH. THE SECOND DETAILS IN TABULAR FORM THE DESCRIPTION OF THE INDIVIDUAL COMPONENTS AND RECOGNITION FEATURES FOUND AT EACH TYPE OF PRODUCTION PLANT OR REPAIR FACILITY.

NPIC	SR	SR033-78	APR 78		SEC CLASS: 14D	MSN:	5P	ACCN: 5083643	25X1
ELECTRONICS, ADEH-5 MICROWAVE ANTENNA				UR					
WAC NO :		BE/OBJ NO:		NPIC NO :					
IDHS CODE:		EPF CAT : 25D		COMIREX NO:					
ZAPADNAYA TV RELAY STATION ADEH-5 ANT IDENT				UR 424048N 0723825E					
WAC NO : 0328		BE/OBJ NO:		NPIC NO : - 156		25X1			
IDHS CODE:		EPF CAT : 25B		COMIREX NO:		25X1			
SPOKOYNNY RADIO RELAY STA ADEH-5 ANT IDENT				UR 510300N 1144950E					
WAC NO : 0201		BE/OBJ NO:		NPIC NO : - 76		25X1			
IDHS CODE:		EPF CAT : 25D		COMIREX NO:		25X1			

A NEW MICROWAVE ANTENNA HAS BEEN IDENTIFIED AT TWO LOCATIONS IN THE USSR. THIS ANTENNA, DESIGNATED ADEH-5 BY THE SOVIETS, WAS FIRST OBSERVED ERECTED AT ZAPADNAYA TV RELAY STATION AND AT SPOKOYNNY RADIO RELAY STATION. THE ADEH-5 ANTENNA CONSISTS OF A 5-METER PARABOLIC ANTENNA WITH AN ADDITIONAL PARABOLIC STRUCTURE ATTACHED TO THE BACK. THIS ANTENNA IS A HIGHER GAIN ANTENNA USED FOR IMPROVING THE PERFORMANCE CHARACTERISTICS OF A RADIO-RELAY LINE OVER OBSTRUCTED REGIONS WHERE THE PARTICULAR OBSTRUCTION IS SMALL AND LOCATED FAR FROM THE ACTIVE STATIONS.

25X1

1562
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO 21 APR 78 SEC CLASS: 13 MSN: 2P ACCN: S083667 25X1

DOMODEOVO NAVAL RDO RELAY/COMMO RCVR STA/BNK UR 552824N 0374545E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 154-A 25X1
IDHS CODE: EPF CAT : 25I COMIREX NO: 25X1

THIS MEMO DESCRIBES THE DISCREPANCY BETWEEN COORDINATES FOR DOMODEOVO NAVAL RADIO-RELAY COMMUNICATIONS
RECEIVER STATION AND BUNKER. NPIC WILL
CONTINUE TO USE THE COORDINATES PRESENTLY IN NPIC'S DATA BASE.* 25X1

DIA IIM 5B1-52817-78 20 APR 78 SEC CLASS: 14B MSN: 3P ACCN: S083668 25X1

1567
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KHARKOV AVTOKOLONNA 2226

WAC NO : 0234

IDHS CODE:

BE/OBJ NO:

EPF CAT : 85A

UR 495703N 0361700E

NPIC NO : - 15-T5

COMIREX NO:

25X1
25X1

25X1

DIA IIM 5B3-52842-78 24 APR 78

SEC CLASS: 13

MSN:

5P

ACCN: S083674

25X1
25X1

ELBASAN AMMUNITION LOADING PLANT

WAC NO : 0322

IDHS CODE:

BE/OBJ NO:

EPF CAT : 356

AL 410425N 0200430E

NPIC NO : - 21-B1

COMIREX NO:

25X1
25X1

DIA IIM 5B3-58006-78 24 APR 78

SEC CLASS: 13

MSN:

1P

ACCN: S083675

25X1
25X1

1568
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

RYAZAN/ALEKSANDROVO AIRFIELD

WAC NO : 0166

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 542930N 0395525E

NPIC NO : - 20-L

COMIREX NO: []

ARMY PIM PIM029-78 22 MAR 78 []

SEC CLASS: 14A MSN: []

4P

ACCN: S083676

25X1

25X1

25X1

NAJIN RADIO RELAY STATION

WAC NO : 0290

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

KN 421615N 1302040E

NPIC NO : - 160-L

COMIREX NO: []

25X1

25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF NAJIN RADREL STATION, NORTH KOREA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL STATION. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH THEIR ORIENTATIONS.

ARMY PIM PIM037-78 22 MAR 78 []

SEC CLASS: 14A MSN: []

6P

ACCN: S083677

25X1

YONPYONG NI RADIO RELAY STATION

WAC NO : 0290

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

KN 405757N 1275000E

NPIC NO : - 197-A

COMIREX NO: []

25X1

25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF YONPYONG-NI RADREL STATION, NORTH KOREA. INCLUDED IN THIS REPORT ARE THREE ANNOTATED PHOTOGRAPHS OF THE RADREL STATION. THE PHOTOS DISPLAY THE STATION ANTENNAS, ALONG WITH THEIR ORIENTATIONS AND AN OVERVIEW OF THE FACILITY.

ARMY PIM PIM013-78 MAR 78 []

SEC CLASS: 14A MSN: []

4P

ACCN: S083678

25X1

CHONGJIN RADIO RELAY STATION

WAC NO : 0290

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

KN 414730N 1294940E

NPIC NO : - 96-D1

COMIREX NO: []

25X1

25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF THE CHONGJIN RADREL STA, NORTH KOREA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL TERMINAL. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH THEIR ORIENTATIONS.

ARMY PIM PIM030-78 31 MAR 78 []

SEC CLASS: 14A MSN: []

4P

ACCN: S083679

25X1

CHIAOPIEN RADIO RELAY STATION BUNKERED

WAC NO : 0497

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

CH 265520N 1125400E

NPIC NO : - 8-C

COMIREX NO: []

25X1

25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF CHIAO-PIEN RADREL STA/BNK, [] PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AND SUPPORT AREAS TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER AND

25X1

1569

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF STATION, AND GEOGRAPHIC LOCATION.

ARMY PIM PIM031-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S08368025X1

CHAYUAN RADIO RELAY STATION BUNKERED

WAC NO : 0497 BE/OBJ NO: NPIC NO : - 10-B
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF CHA-YUAN RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AND SUPPORT AREAS TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF STATION, AND GEOGRAPHIC LOCATION.

ARMY PIM PIM032-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S08368125X1

HSAIOSHUIPU RADIO RELAY STATION BUNKERED

WAC NO : 0497 BE/OBJ NO: NPIC NO : - 31-A1
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF HSIAO-SHUI-PU RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AND SUPPORT AREAS TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF THE STATION, AND ITS GEOGRAPHIC LOCATION.

ARMY PIM PIM034-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S08368225X1

WUSHIHMULU RADIO RELAY STATION BUNKERED

WAC NO : 0494 BE/OBJ NO: NPIC NO : - 1-A3
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF WU-SHIH-MU-LU RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL STATION. THE PHOTO DISPLAYS THE CONTROL BUILDING, ANTENNA BUNKER WITH THE ORIENTATIONS OF THE ANTENNA OPENINGS AND THE SUPPORT AREA.

ARMY PIM PIM041-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S08368325X1

HSIAAO RADIO RELAY STATION BUNKERED

WAC NO : 0497 BE/OBJ NO: NPIC NO : - 20
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
225X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF HSIA-AO RADREL STA, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL

1570
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1

AREA AND SUPPORT AREA TO INCLUDE NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, NUMBER AND TYPE OF BUILDINGS, ELEVATION OF THE STATION, AND ITS GEOGRAPHIC LOCATION.

ARMY PIM PIM042-78 31 MAR 78 [] SEC CLASS: 14A MSN: 4P ACCN: S083684 25X1
 YANGCHIACHUNG RADIO RELAY STATION BUNKERED CH 284223N 1115600E
 WAC NO : 0494 BE/OBJ NO: [] NPIC NO : - 19 25X1
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF YANG-CHIA-CHUNG RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF STATION, AND ITS GEOGRAPHIC LOCATION.

ARMY PIM PIM043-78 31 MAR 78 [] SEC CLASS: 14A MSN: 4P ACCN: S083685 25X1
 LIHSIEN RADIO RELAY STATION BUNKERED CH 293524N 1113935E
 WAC NO : 0494 BE/OBJ NO: [] NPIC NO : - 29-A 25X1
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF LI-HSIEN RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE, AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF THE STATION, AND ITS GEOGRAPHIC LOCATION.

AF BIIR RFB22-5003-78 JAN 78 SEC CLASS: 05 MSN: 8P ACCN: S083686
 MISSILES, AA-6A SEMI-ACTIVE HOMING VARIANT UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 40J COMIREX NO: []
 MISSILES, AA-6B INFRARED HOMING VARIANT UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 40J COMIREX NO: []

THIS REPORT PRESENTS AN ANALYSIS OF THE ACRID (AA-6), A LARGE AIR-TO-AIR MISSILE CARRIED BY THE FOXBAT A (MIG-25). THE REPORT CONTAINS A BASIC DESCRIPTION, ORTHOGRAPHIC ENGINEERING DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE MISSILE AND LAUNCHER.

TYPICAL OF OTHER SOVIET AAMS, THE ACRID (AA-6) IS PRODUCED IN SEMIACTIVE RADAR-GUIDED AND INFRARED-HOMING HEAT-SEEKING VARIANTS. BOTH VERSIONS HAVE A WINGSPAN [] WITH THE SEMIACTIVE-GUIDED VARIANT HAVING A LENGTH [] AND THE INFRARED-HOMING VARIANT HAVING A LENGTH []

25X1
 25X1
 25X1

1571
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF BIIR RFB22-0006-78 JAN 78 SEC CLASS: 13 MSN: 12P ACCN: S083688 25X1

AIRCRAFT, CHECH A
WAC NO :
IDHS CODE:
AIRCRAFT, CHECH B
WAC NO :
IDHS CODE:
BE/OBJ NO: EPF CAT : 05B
BE/OBJ NO: EPF CAT : 05B
UR
NPIC NO :
COMIREX NO:
UR
NPIC NO :
COMIREX NO:

25X1

25X1

THIS REPORT PRESENTS AN ANALYSIS OF THE AEROHYDRODYNAMIC RESEARCH VEHICLES DESIGNATED CHECH-A AND CHECH-B. THE REPORT INCLUDES A BASIC DESCRIPTION, ORTHOGRAPHIC DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE VEHICLES. THIS REPORT SUPERSEDES FTD BIIR, RFB-22/0020/76, CHECH-A AND CHECH-B, APRIL 1976 (TOP SECRET RUFF).

25X1

25X1

AF BIIR RFB22-0007-78 JAN 78 SEC CLASS: 13 MSN: 6P ACCN: S083689 25X1

ELECTRONICS, COMSAT ANTENNA
WAC NO :
BE/OBJ NO: NPIC NO :
UR

25X1
25X1

25X1

1572
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

THIS REPORT PRESENTS A PHOTOGRAPHIC ANALYSIS OF THE [REDACTED] COMSAT ANTENNAS LOCATED
THROUGHOUT THE USSR, AT LUSTINICE, CZECHOSLOVAKIA [REDACTED]

25X1

THE ANTENNA ASSEMBLY CONSISTS OF A [REDACTED] PARABOLIC DISH REFLECTOR WITH A CASSEGRAIN FEED
SYSTEM. THE REFLECTOR, ATTACHED TO AN ELEVATION-OVER-AZIMUTH MOUNT, IS POSITIONED ON EITHER A BUILDING OR
A MODIFIED GUN CARRIAGE. IT APPEARS THAT WHEN THE ANTENNAS ARE BUILDING-MOUNTED, THE REFLECTOR FACES ARE
SOLID, AND WHEN MOUNTED ON GUN CARRIAGES, THEY ARE PERFORATED.

25X1

25X1

25X1

1573

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

SAC STDY GOALKEEPER05-77 01 NOV 77

SEC CLASS: 05BX MSN:

31P

ACCN: S083692

PROJECT GOALKEEPER V

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15G	COMIREX NO:
BELUSHYA GUBA AIR DEFENSE ZONE AREA STUDY		UR 7137 N 05230 E
WAC NO : 0050	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
NORILSK AIR DEFENSE ZONE AREA STUDY		UR 6921 N 08821 E
WAC NO : 0048	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:

THIS REPORT IS AN UPDATE OF THE FIRST GOALKEEPER STUDY THAT WAS DONE UNDER THE STRATEGIC AREA CONCEPT. THOSE HOLDING COPIES OF THE ORIGINAL KARA SEA STUDY (PUBLISHED IN MAR 1974) ARE ENCOURAGED TO DESTROY THEM AND REPLACE THEM WITH THIS DOCUMENT. OTHER STUDIES IN THE GOALKEEPER SERIES WILL NOT BE UPDATED.

THE OBJECTIVE OF PROJECT GOALKEEPER IS TO PROVIDE A DEFINITIVE, CONCISE ASSESSMENT OF AIR DEFENSES WITHIN A PARTICULAR GEOGRAPHIC AREA. THIS REPORT EVALUATES OVERALL DEFENSIVE CAPABILITIES AND SUGGESTS SOME CONSIDERATIONS FOR DEFENSE SUPPRESSION AND ROUTE PLANNING. THE DETAILED ANALYSIS SUPPORTING THESE CONCLUSIONS IS NOT INCLUDED IN THIS REPORT, BUT CAN BE PROVIDED TO SPECIFIC AGENCIES UPON REQUEST. THE INTELLIGENCE CUTOFF DATE IS 1 NOV 77.

SAC STDY GOALKEEPER13-77 01 DEC 77

SEC CLASS: 05BX MSN:

47P

ACCN: S083693

PROJECT GOALKEEPER XIII

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15G	COMIREX NO:
KOMSOMOLSK AIR DEFENSE ZONE AREA STUDY		UR 5034 N 13702 E
WAC NO : 0204	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
PETROPALOVSK AIR DEFENSE ZONE AREA STUDY		UR 5302 N 15840 E
WAC NO : 0194	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
YUZHNO SAKHALINSK AIR DEFENSE ZONE AREA STUDY		UR 4656 N 14244 E
WAC NO : 0281	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
VERINO AIR DEFENSE ZONE AREA STUDY		UR 4757 N 13506 E
WAC NO : 0282	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
VLADIVOSTOK AIR DEFENSE ZONE AREA STUDY		UR 4309 N 13200 E
WAC NO : 0291	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:

1574
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT IS THE EIGHTH IN THE SERIES OF GOALKEEPER STUDIES DONE UNDER THE STRATEGIC AREA CONCEPT. THE OBJECTIVE OF PROJECT GOALKEEPER IS TO PROVIDE A DEFINITIVE, CONCISE ASSESSMENT OF AIR DEFENSES WITHIN A PARTICULAR GEOGRAPHIC AREA. THIS REPORT EVALUATES OVERALL DEFENSIVE CAPABILITIES AND SUGGESTS SOME CONSIDERATIONS FOR DEFENSE SUPPRESSION AND ROUTE PLANNING. THE DETAILED ANALYSIS SUPPORTING THESE CONCLUSIONS IS NOT INCLUDED IN THIS REPORT, BUT CAN BE PROVIDED TO SPECIFIC AGENCIES UPON REQUEST. THE INTELLIGENCE CUTOFF DATE IS 1 DEC 77.

NPIC BIIR RCA09-0019-77

MAY 78

SEC CLASS: 25B MSN:

39P

ACCN: S083694

25X1

BIYSK SOLID MOTOR PRODUCTION PLANT 1	UR 522905N 0850710E
WAC NO : 0161	NPIC NO : - 6-A
IDHS CODE: []	COMIREX NO: []
BIYSK SOLID MOTOR PRODUCTION PLANT 2	UR 522850N 0850300E
WAC NO : 0161	NPIC NO : - 6-A2
IDHS CODE: []	COMIREX NO: []
BIYSK SOLID MOTOR TEST AREA 1	UR 523054N 0850500E
WAC NO : 0161	NPIC NO : - 6-A1
IDHS CODE: []	COMIREX NO: []
BIYSK SOLID MOTOR TEST AREA 2	UR 523119N 0850154E
WAC NO : 0161	NPIC NO : - 6-B
IDHS CODE: []	COMIREX NO: []
KAMENSK SHAKHTINSKIY SOLID MOTOR PROD PLANT	UR 481750N 0401049E
WAC NO : 0234	NPIC NO : - 13-A1
IDHS CODE: []	COMIREX NO: []
MISSILES, SOLID PROPELLANT PRODUCTION FACILS	UR
WAC NO :	NPIC NO :
IDHS CODE:	COMIREX NO:
KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT	UR 560236N 0930237E
WAC NO : 0159	NPIC NO : - 7-P
IDHS CODE: []	COMIREX NO: []
KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT	UR 560236N 0930237E
WAC NO : 0159	NPIC NO : - 7-P
IDHS CODE: []	COMIREX NO: []
STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850	UR 534200N 0555807E
WAC NO : 0165	NPIC NO : - 27-F
IDHS CODE: []	COMIREX NO: []
STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850	UR 534200N 0555807E
WAC NO : 0165	NPIC NO : - 27-F
IDHS CODE: []	COMIREX NO: []
SOLIKAMSK POWDER + SOLID MTR PROD PLT BOROVSK	UR 594011N 0564243E
WAC NO : 0156	NPIC NO : - 63-B
IDHS CODE: []	COMIREX NO: []
SOLIKAMSK POWDER + SOLID MTR PROD PLT BOROVSK	UR 594011N 0564243E

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1575

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0156 BE/OBJ NO: NPIC NO : - 63-B
 IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
 25X1
 25X1

PAVLOGRAD SOLID MOTOR PRODUCTION PLANT UR 483401N 0354912E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-D
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 PAVLOGRAD ORDNANCE R+D FACILITY UR 483030N 0355702E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-C
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 PAVLOGRAD SOLID MOTOR ASSEMBLY/TEST SUPT FAC UR 482658N 0355723E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-C4
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 PAVLOGRAD SOLID MOTOR TEST FACILITY UR 482605N 0355817E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-C3
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 PERM SOLID MOTOR PRODUCTION PLANT UR 575918N 0555330E
 WAC NO : 0156 BE/OBJ NO: NPIC NO : - 16-U1
 IDHS CODE: EPF CAT : 40E COMIREX NO:

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 225X1

THIS REPORT DESCRIBES RECENT DEVELOPMENTS AT NINE SOVIET SOLID PROPELLANT PRODUCTION FACILITIES AND FIVE FACILITIES RELATED TO THE DEVELOPMENT AND TESTING OF SOLID PROPELLANT MOTORS. THE FIVE RELATED FACILITIES INCLUDE THREE SOLID MOTOR TEST FACILITIES, ONE ORDNANCE RESEARCH AND DEVELOPMENT FACILITY, AND ONE SOLID MOTOR ASSEMBLY AND TEST SUPPORT FACILITY.

FROM NOVEMBER 1974 THROUGH DECEMBER 1977, MAJOR PLANT EXPANSION WAS OBSERVED AT THREE PRODUCTION PLANTS, BIYSK PRODUCTION PLANTS I AND II AND KAMENSK-SHAKHTINSKIY SOLID MOTOR PRODUCTION PLANT, AND AT ONE HORIZONTAL TEST POSITION, BIYSK TEST AREA II. THE THRUST BLOCK AT BIYSK TEST AREA II IS NOW THE LARGEST THRUST BLOCK WITHIN THE USSR FOR TESTING SOLID MOTORS.

ONE TACTICAL AND THREE STRATEGIC-SIZED MOTORS WERE BEING DEVELOPED AND/OR BEING TESTED WITHIN THE BIYSK COMPLEX DURING THE REPORTING PERIOD. PRODUCTION HAS CONTINUED ON ONE STRATEGIC-SIZED MOTOR AT KAMENSK-SHAKHTINSKIY. BETWEEN FEBRUARY 1976 AND OCTOBER 1977, PROBABLY TWO TACTICAL AND AS MANY AS FOUR STRATEGIC-SIZED MOTORS WERE OBSERVED WITHIN THE PAVLOGRAD SOLID MOTOR PRODUCTION PLANT. ONE TACTICAL AND TWO PROBABLE STRATEGIC-SIZED MOTORS WERE OBSERVED WITHIN THE PAVLOGRAD ASSEMBLY AND CHECKOUT FACILITY. THE TESTING OF LAUNCH ASSIST DEVICES WITHIN AN UPWARD FIRING TEST POSITION AT PAVLOGRAD SOLID MOTOR TEST FACILITY SUGGESTS THAT EITHER A FOLLOW-ON TO THE SS-17 OR PERHAPS A NEW MISSILE SYSTEM IS UNDER DEVELOPMENT.

AT PERM SOLID MOTOR PRODUCTION PLANT, ONE OR MORE NEW COMPOSITE-MODIFIED DOUBLE-BASE (CMDR) ROCKET MOTORS, WHICH WERE OBSERVED DURING THE OCTOBER 1975 THROUGH DECEMBER 1977 REPORTING PERIOD, MAY BE READY TO ENTER SERIES PRODUCTION. A NEW PROBABLE ROCKET MOTOR OR ROCKET MOTOR SHIPPING CONTAINER HAS BEEN

1576

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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25X1

IDENTIFIED AT THE CMDB PLANT AND TWO NEW PROBABLE ROCKET MOTORS OR SHIPPING CONTAINERS HAVE BEEN IDENTIFIED AT THE ROCKET MOTOR TEST FACILITY. PERM MUNITIONS AND CHEMICAL COMBINE K. KIROV 98 HAS BEEN IDENTIFIED AS THE PRODUCTION FACILITY FOR THE SA-5 BOOSTER.

THIS REPORT UPDATES PREVIOUS NPIC REPORTS ON ALL OF THE FACILITIES [REDACTED] ON THE BIYSK SOLID PROPELLANT PRODUCTION COMPLEX; [REDACTED] ON KAMENSK-SHAKHTINSKIY; [REDACTED] ON THE PAVLOGRAD SOLID MOTOR PRODUCTION COMPLEX; [REDACTED] ON THE PERM COMPLEX; [REDACTED] ON SOLIKAMSK; [REDACTED] ON STERLITAMAK; AND [REDACTED] ON KRASNOYARSK. THIS REPORT CONTAINS 41 PHOTOGRAPHS AND FIVE TABLES. THE INFORMATION CUTOFF DATE IS 31 DECEMBER 1977.

25X1
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25X1
25X1

DIA STDY DST1000C-548-78 28 FEB 78 [REDACTED] SEC CLASS: 25 MSN: 104P

ACCN: 5083695 25X1

MISSILES, BALLISTIC MISSILE SYSTEMS ACTIVITY

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40

COMIREX NO:

THIS SEMIANNUAL PUBLICATION REPORTS ON ACTIVITY AND ASSESSMENT OF THE SOVIET BALLISTIC MISSILE PROGRAM RELATED TO OPERATIONAL AND EMERGING MRBM, IRBM, AND ICbMS. IN THIS REPORT, FOR ONE TIME ONLY, A DISCUSSION AND DESCRIPTION OF THE ICBM IMPACT AREAS AND MIRV FOOTPRINTS IS INCLUDED.

25X1

1577

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-52946-78 25 APR 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: S083702 25X1

KIYEV AVTOKOLONNA 2239

WAC NO : 0233

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 85A

UR 502745N 0302750E

NPIC NO : - 30-D2

COMIREX NO: []

25X1

25X1

DIA IIM 5B3-58012-78 25 APR 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S083703 25X1

KYUBEYI AIRFIELD

WAC NO : 0125

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 635330N 1224700E

NPIC NO : - 25

COMIREX NO:

25X1

25X1

25X1

DIA IIM 5B3-58024-78 APR 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S083705 25X1

KARABULAK MILITARY EQUIPMENT

WAC NO : 0244

IDHS CODE: []

STORAGE AREA SAF

BE/OBJ NO:

EPF CAT : 35F

UR 445350N 0782935E

NPIC NO :

COMIREX NO:

25X1

25X1

1579

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B3-58026-78 27 APR 78 SEC CLASS: 13 MSN: 2P

ACCN: 508370625X1

TASHKENT MILITARY VEHICLE REPAIR UNIT SAF
WAC NO : 0328 BE/OBJ NO:
IDHS CODE: EPF CAT : 35F

UR 411645N 0691830E
NPIC NO :
COMIREX NO:

25X1

DIA IIM 5B1-58015-78 25 APR 78 SEC CLASS: 14B MSN: 3P

ACCN: 508370725X1

SMOLENSK AVTOKOLONNA 1507
WAC NO : 0167
IDHS CODE:

BE/OBJ NO:
EPF CAT : 85A

UR 544606N 0320036E
NPIC NO :
COMIREX NO:

25X1
25X1

NPIC PIR PIR017-78 APR 78 SEC CLASS: 14B MSN: 8P

ACCN: 508370925X1

MISSILES, ICBM COMPLEXES BUNKERS NEW U/I

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40A

KOZELSK ICBM RTP BUNKER NEW U/I

WAC NO : 0167 BE/OBJ NO:
IDHS CODE: EPF CAT : 40A

KOSTROMA ICBM RTP BUNKER NEW U/I

WAC NO : 0154 BE/OBJ NO:
IDHS CODE: EPF CAT : 40A

UR

NPIC NO :
COMIREX NO:

UR 535617N 0354652E

NPIC NO : - 137-B
COMIREX NO:

UR 575056N 0411444E

NPIC NO : - 29-B5
COMIREX NO:

25X1
25X1

25X1
25X1

1580
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

TATISHCHEVO ICBM RTP BUNKER NEW U/I
 WAC NO : 0235 BE/OBJ NO: EPF CAT : 40A NPIC NO : - 49-C
 IDHS CODE: COMIREX NO:
 YOSHKAR OLA ICBM RTP BUNKER NEW U/I
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 15-D3
 IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

25X1

25X1

25X1

NEW ARCH-ROOFED, EARTH-MOUNDED BUNKERS, SOME OF WHICH ARE FOR VEHICLES AND OTHERS PROBABLY FOR PERSONNEL, WERE CONSTRUCTED BETWEEN 1975 AND 1977 NEAR THE RAIL-TO-ROAD TRANSFER POINTS (RTPS) AT FOUR ICBM COMPLEXES IN THE SOVIET UNION-KOSTROMA, KOZELSK, TATISHCHEVO, AND YOSHKAR-OLA. THESE ICBM COMPLEXES ARE WITHIN 400 NAUTICAL MILES (NM) OF MOSCOW. ONE DRIVE-IN BUNKER AND TWO PROBABLE PERSONNEL BUNKERS ARE 2.0 NM NORTH OF THE KOSTROMA ICBM RTP; TWO DRIVE-IN BUNKERS OR 2.0 NM NORTHEAST OF THE KOZELSK ICBM RTP; TWO DRIVE-IN BUNKERS ARE 1.5 NM SOUTH OF THE TATISHCHEVO ICBM RTP AND ONE DRIVE-IN BUNKER IS 1.5 NM NORTHEAST OF THE YOSHKAR-OLA ICBM RTP. AT KOSTROMA AND YOSHKAR-OLA, THE BUNKERS ARE ALSO NEAR THE ICBM COMPLEX RADIO COMMUNICATIONS RECEIVER FACILITY. NONE OF THESE BUNKERS ARE FENCE SECURED, EVEN THOUGH MOST OF THEM ARE ALONG MAJOR HIGHWAYS.

25X1

NPIC SR SR037-78 APR 78 SEC CLASS: 25B 2P ACCN: S083711

25X1

BALAKLAVA MTC SS-N-2CF4 MOBILE PLATFORM POSS
 WAC NO : 0250 BE/OBJ NO: NPIC NO : - 3-A4
 IDHS CODE: EPF CAT : 40G COMIREX NO:

25X1

25X1

25X1

ANALYSIS OF IMAGERY OF THE BALAKLAVA MISSILE TEST CENTER, USSR, IN CONJUNCTION WITH SIGINT REPORTS OF SS-N-2CF4 (STYX VARIANT) MISSILE FIRINGS BETWEEN SEPTEMBER 1976 AND JUNE 1977 SUGGESTS THAT THE MISSILE MAY HAVE BEEN FIRED FROM A MOBILE PLATFORM.

DIA NBRG NDA07-5115-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083714

LYALICHI ARMY BARRACKS AL1
 WAC NO : 0282 BE/OBJ NO: NPIC NO : - 30-B8
 IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

1581
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA NBRG NDA07-5116-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083715
LYALICHI ARMY BARRACKS AL2 UR 440238N 1322627E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 30-B6 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5117-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083716
ARTEM ARMY BARRACKS AL4 UR 432200N 1321600E
WAC NO : 0291 BE/OBJ NO: NPIC NO : - 1-J1 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5118-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083717
IMAN ARMY BARRACKS EAST AL7 UR 455410N 1335020E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 11-G 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5119-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083718
PETROPAVLOVSK ARMY BARRACKS AL22 + HQ MRD UR 530324N 1584957E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 11-L1 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5120-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083719
PETROPAVLOVSK ARMY BARRACKS AL25 UR 525925N 1584558E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 11-M 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5121-78 25 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083720
PETROPAVLOVSK ARMY BARRACKS AL26 UR 530159N 1584013E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 11-Q3 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5122-78 28 APR 78 SEC CLASS: 05G MSN: 1P ACCN: S083721
PETROPAVLOVSK ARMY BARRACKS AL24 UR 530344N 1583812E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 11-T2 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

1582

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA BIIB BDA11-0001-77 APR 78 [] SEC CLASS: 14D MSN: [] 3P ACCN: S083722 25X1

HAERHPIN AMMUNITION PLANT

WAC NO : 0283

BE/OBJ NO: []

CH 454815N 1264258E

IDHS CODE: []

EPF CAT : 356

NPIC NO : - 42-H1

COMIREX NO: []

THIS BRIEF UPDATES DIA BASIC REPORT RDA-11/0022/73, [] ON THE HA-ERH-PIN AMMUNITION PLANT.
IT COVERS THE PERIOD 14 SEPTEMBER 1972 THROUGH 11 DECEMBER 1975.*

DIA IIM 5B1-58007-78 21 APR 78 [] SEC CLASS: 14B MSN: [] 5P ACCN: S083723 25X1

MINSK AVTOKOLONNA 2418

WAC NO : 0168

BE/OBJ NO: []

UR 535228N 0273025E

IDHS CODE: []

EPF CAT : 85A

NPIC NO :

COMIREX NO:

DIA IIM 5B3-58025-78 28 APR 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S083724 25X1

MAGADAN AIRFIELD POL STORAGE CAPACITY

WAC NO : 0131

BE/OBJ NO: []

UR 593715N 1505520E

IDHS CODE: []

EPF CAT : 05I

NPIC NO : - 1-B

COMIREX NO: []

DIA IIM 5B3-58233-78 01 MAY 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S083726 25X1

ULAN UDE AIRFIELD EAST POL STORAGE CAPACITY

WAC NO : 0201

BE/OBJ NO: []

UR 515054N 1074336E

IDHS CODE: []

EPF CAT : 05I

NPIC NO : - 18-U

COMIREX NO:

DIA IIM 5B3-58239-78 02 MAY 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S083727 25X1

KHATANGA AIRFIELD POL STORAGE CAPACITY

WAC NO : 0047

BE/OBJ NO: []

UR 715822N 1022912E

IDHS CODE: []

EPF CAT : 05I

NPIC NO : - 1

COMIREX NO: []

1583
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B3-58241-78	02 MAY 78		SEC CLASS: 13	MSN:		1P	ACCN: 5083729	25X1	
PAVLODAR AIRFIELD SOUTH RUNWAY DIMENSIONS										UR	521210N 0770440E
		WAC NO : 0162	BE/OBJ NO:		NPIC NO : -	9-E				25X1	
		IDHS CODE:	EPF CAT : 05A		COMIREX NO:					25X1	
DIA	IIM	5B3-58242-78	02 MAY 78		SEC CLASS: 13	MSN:		1P	ACCN: 5083730	25X1	
RYAZHNSK AIRFIELD RUNWAY DIMENSIONS										UR	534145N 0400008E
		WAC NO : 0166	BE/OBJ NO:		NPIC NO : -	22				25X1	
		IDHS CODE:	EPF CAT : 05A		COMIREX NO:					25X1	
CIA	BIIR	RCS13-0005-78	APR 78		SEC CLASS: 13	MSN:		10P	ACCN: 5083731	25X1	
CHIANGYU IRON + STEEL PLANT										CH	314535N 1044540E
		WAC NO : 0495	BE/OBJ NO:		NPIC NO : -	62				25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
CHICHANG IRON + STEEL PLANT SANCHICHANG										CH	285627N 1064153E
		WAC NO : 0495	BE/OBJ NO:		NPIC NO : -	142				25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
CHUNGCHING IRON + STEEL PLANT 1										CH	292853N 1062928E
		WAC NO : 0495	BE/OBJ NO:		NPIC NO : -	10-S				25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
HSICHANG IRON + STEEL PLANT										CH	275345N 1021345E
		WAC NO : 0496	BE/OBJ NO:		NPIC NO :					25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
TATUKOU IRON + STEEL PLANT										CH	263440N 1014130E
		WAC NO : 0496	BE/OBJ NO:		NPIC NO : -	60-A				25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
CHUNGCHING IRON + STEEL PLANT 2										CH	293530N 1062640E
		WAC NO : 0495	BE/OBJ NO:		NPIC NO :					25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
INDUSTRY, IRON + STEEL PLANTS SSUCHUANSHENG										CH	
		WAC NO :	BE/OBJ NO:		NPIC NO :					25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	
WUTU HEAVY FABRICATION INDUSTRY										CH	315230N 1044625E
		WAC NO : 0495	BE/OBJ NO:		NPIC NO : -	62-C				25X1	
		IDHS CODE:	EPF CAT : 30C		COMIREX NO:					25X1	

1584
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CHUNGCHING STEEL PLANT LIUCHIAPU	CH 292642N 1062904E
WAC NO : 0495	NPIC NO : - 10-U2
IDHS CODE: []	COMIREX NO:
CHUNGCHING IRON + STEEL PLANT 3	CH 293440N 1063245E
WAC NO : 0495	NPIC NO :
IDHS CODE: []	COMIREX NO:
KUNGHSIEN IRON PLANT	CH 282330N 1044700E
WAC NO : 0495	NPIC NO :
IDHS CODE: []	COMIREX NO:
TATIPING IRON PLANT	CH 315740N 1080030E
WAC NO : 0494	NPIC NO :
IDHS CODE: []	COMIREX NO:
TIENCHIAPA IRON PLANT	CH 315610N 1080315E
WAC NO : 0494	NPIC NO :
IDHS CODE: []	COMIREX NO:
TUMENCHANG IRON PLANT	CH 312030N 1040200E
WAC NO : 0495	NPIC NO :
IDHS CODE: []	COMIREX NO:
CHENG TU STEEL TUBE PLANT	CH 303820N 1040640E
WAC NO : 0495	NPIC NO : - 29-D2
IDHS CODE: []	COMIREX NO:

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

IN MID-1977 THERE WERE 14 PLANTS ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS IN SZECHWAN PROVINCE. FOUR ARE PIG IRON PLANTS, FIVE ARE IRON AND STEEL PLANTS, AND FIVE ARE STEEL PLANTS. TWELVE OF THE PLANTS ARE LOCATED IN THE EASTERN HALF OF THE PROVINCE. A COMPLETE IDENTIFICATION OF THE FACILITIES AT THE KUNG-HSIEN IRON PLANT COULD NOT BE MADE DUE TO A LACK OF GOOD QUALITY COVERAGE. THEREFORE, THE INFORMATION IN THIS REPORT IS BASED ON THE OTHER 13 PLANTS.

THERE ARE THREE LARGE, FOUR MEDIUM, AND SEVEN SMALL BLAST FURNACES AT THE PLANTS. THESE FURNACES ARE CAPABLE OF PRODUCING AN ESTIMATED MAXIMUM OF 5,230 METRIC TONS OF PIG IRON PER DAY. SEVEN STEEL FURNACE BUILDINGS ARE IN USE IN THE PROVINCE. TWO CONTAIN OPEN-HEARTH FURNACES, ONE CONTAINS BASIC OXYGEN FURNACES, ONE CONTAINS A SIDE-BLOWN CONVERTER, TWO CONTAIN ELECTRIC FURNACES, AND ONE PROBABLY CONTAINS ELECTRIC FURNACES. IN ADDITION, STEEL CONVERTERS ARE PROBABLY LOCATED IN A FORGE BUILDING AT THE CHUNG-CHING STEEL PLANT LIU-CHIA-PU, OPEN-HEARTH FURNACES ARE PROBABLY LOCATED IN A ROLLING MILL AT CHUNG-CHING STEEL PLANT NO. 3, AND STEEL CONVERTERS ARE POSSIBLY LOCATED IN A FORGE/FOUNDRY AT CHI-CHIANG IRON AND STEEL PLANT SAN-CHI-CHANG. THERE ARE 17 ROLLING MILLS WITH A TOTAL ROOF COVER OF APPROXIMATELY 619,940 SQUARE METERS.

TEN OF THE PLANTS WERE OPERATING WHEN SEEN ON THE LATEST AVAILABLE PHOTOGRAPHY. THE WU-TU STEEL PLANT, THE TA-TI-PING IRON PLANT, AND THE TU-MEN-CHANG IRON PLANT WERE NOT OPERATING. NO MAJOR CONSTRUCTION WAS EVIDENT AT ANY OF THE PLANTS.

THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES AT EACH PLANT. IT PROVIDES ANNOTATED PHOTOGRAPHS OF SELECTED PLANTS AND A MAP SHOWING PLANT LOCATIONS. THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS AUGUST 1977.

1585
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

ARMY BIIR RAC24-0002-78 MAR 78

SEC CLASS: 14B MSN:

24P

ACCN: S08373425X1

MILITARY, M-1977 240MM SELF-PROPELLED MORTAR

UR

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35E

NPIC NO :
COMIREX NO:

25X1

THE PURPOSE OF THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) IS TO PROVIDE INFORMATION ON THE NEW SOVIET 240MM SELF-PROPELLED (SP) MORTAR M-1977. THIS HEAVY SP MORTAR IS MOUNTED ON A MODIFIED GANEF CHASSIS PRODUCED IN THE U.S.S.R. ITS ROLE AND DEPLOYMENT WILL PROBABLY BE PATTERNED AFTER THE 240MM TOWED MORTAR. DEPLOYMENT OF THIS NEW WEAPON IS ANOTHER EXAMPLE OF THE SOVIET EFFORT TO IMPROVE ITS GROUND FORCES MOBILITY AND FIREPOWER.

THIS REPORT INCLUDES A BASIC DESCRIPTION, CONCEPTUAL DRAWINGS, PHOTOGRAPHS, STEREOGRAMS, AND DEPLOYMENT TRENDS OF THIS WEAPON. THE INFORMATION PROVIDED IS CURRENT AS OF OCTOBER 1977.

25X1

1586
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IIM 5B1-58234-78 MAY 78 [] SEC CLASS: 14B MSN: [] 1P ACCN: S083736 25X1

NOVA GRAISKA ARMY BARRACKS 1

WAC NO : 0252

IDHS CODE: []

BE/OBJ NO:

EPF CAT : 35A

YO 451533N 0172314E

NPIC NO :

COMIREX NO:

25X1

25X1

DIA IIM 5B1-52767-78 MAY 78 [] SEC CLASS: 14B MSN: [] 8P ACCN: S083738 25X1

TOMSK MILITARY INSTL 194 SIGNAL SCHOOL PROB

WAC NO : 0158

IDHS CODE: []

BE/OBJ NO:

EPF CAT : 35A

UR 562848N 0845722E

NPIC NO :

COMIREX NO:

25X1

TOMSK MILITARY INSTL 194 SIGNAL SCHOOL PROB

WAC NO : 0158

IDHS CODE: []

BE/OBJ NO:

EPF CAT : 35B

UR 562848N 0845722E

NPIC NO :

COMIREX NO:

25X1

TOMSK MILITARY INSTALLATION EAST

WAC NO : 0158

IDHS CODE: []

BE/OBJ NO:

EPF CAT : 35A

UR 563325N 0851240E

NPIC NO : 6-E

COMIREX NO:

25X1

25X1

DIA IIM 5B1-58025-78 26 APR 78 [] SEC CLASS: 14B MSN: [] 4P ACCN: S083739 25X1

ROVNO AVTOKOLONNA 2217

WAC NO : 0233

IDHS CODE: []

BE/OBJ NO:

EPF CAT : 85A

UR 503655N 0261605E

NPIC NO :

COMIREX NO:

25X1

25X1

25X1

NPIC IIR IIR023-78 01 MAY 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: S083743 25X1

1587

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AIRCRAFT, RAM K FIGHTER NEW PROB

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:
RAMENSKOYE FLIGHT TEST CENTER RAM K NEW PROB UR 553418N 0380923E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1
25X1

NPIC IIR IIR025-78 02 MAY 78

SEC CLASS: 14B MSN:

3P

ACCN: 5083745

SMORGON MOBILE IRBM BASE 1 U/C IDENT

WAC NO : 0168 BE/OBJ NO: NPIC NO : - 68-A6
IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1
25X1

25X1
25X1

THE TWELFTH SOVIET SS-20 MOBILE IRBM BASE, SMORGON MOBILE IRBM BASE 1, WAS NEWLY IDENTIFIED. THIS NEW BASE, IN THE EUROPEAN USSR, WAS IN AN EARLY STAGE OF CONSTRUCTION. IT IS BEING BUILT ON THE SITE OF AN SS-5 IRBM LAUNCH SITE, SMORGON IRBM LAUNCH SITE 1. THIS IS THE FIRST SS-20 BASE TO BE CONSTRUCTED AT AN SS-5 SITE, AND IT IS THE SECOND SS-20 BASE IDENTIFIED IN THE POSTAVY MRBM/IRBM DIVISION. AS WITH THE OTHER SS-20 DEPLOYMENTS TO MRBM/IRBM LAUNCH SITES, THE SITE CHOSEN IS COLLOCATED WITH THE REGIMENTAL RECEIVER COMMUNICATIONS BUNKER. THE LAST PREVIOUS COVERAGE, NO SS-20 ACTIVITY WAS SEEN AND SS-5 OPERATIONS APPEARED TO BE NORMAL.

25X1

25X1

25X1

25X1

25X1

25X1

1588
TOP SECRET CHESS RUFF

Sanitized Copy Approved for Release 2010/03/16 : CIA-RDP79T01184A000100040001-5

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR 30 APR 78 SEC CLASS: 14 MSN: 29P ACCN: 5083763 25X1

GENERAL, CIVIL DEFENSE FACS PHOTO SIGNATURES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:

THIS PAPER WAS ASSEMBLED BY THE CENTRAL INTELLIGENCE AGENCY'S OFFICE OF IMAGERY ANALYSIS (OIA) IN ORDER TO GATHER IN ONE DOCUMENT PHOTOGRAPHIC SIGNATURES FOR SOVIET CIVIL DEFENSE PRACTICES. IT IS INTENDED THAT IT BE USED AS AN AID TO IMAGERY ANALYSTS IN ACCOMPLISHING THEIR TASKS IN THE IDENTIFICATION AND ANALYSIS OF SOVIET CIVIL DEFENSE MEASURES. TOPICS INCLUDED IN THIS PAPER ARE: SHELTERS, SHELTER MEASUREMENTS, CIVIL DEFENSE UNITS, TRAINING SITES, GRAIN STORAGE BUNKERS, FOOD STORAGE FACILITIES, AND WATER STORAGE BUNKERS.

IT IS NOT INTENDED TO BE A COMPLETE AND FORMAL CIVIL DEFENSE PHOTO INTERPRETATION KEY. OIA ENVISIONS CHANGES AND ADDITIONS AS NEW SIGNATURES ARE ESTABLISHED AND ADDITIONAL INFORMATION BECOMES AVAILABLE.

CIA INFR 1510054K-78 31 MAR 78 SEC CLASS: 13 MSN: 12P ACCN: 5083764 25X1

SARY SHAGAN MTC CPLX B INSTR SITE TLMTRY ANTS UR 460106N 0722804E
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 50-B
IDHS CODE: EPF CAT : 25C COMIREX NO:
SARY SHAGAN MTC CPLX D INSTR SITE TLMTRY ANTS UR 454840N 0733404E
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 39

25X1
25X25X1

25X1

1592
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
SARY SHAGAN MTC CPLX F INSTR	SITE TLMTRY ANTS	UR 462629N 0725108E
WAC NO : 0245	BE/OBJ NO: []	NPIC NO : - 49-86
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
SARY SHAGAN MTC CPLX G	TELEMETRY ANTENNAS	UR 455149N 0732352E
WAC NO : 0245	BE/OBJ NO: []	NPIC NO : - 78-A
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1

25X1
25X125X1
25X1

THE LAST GALOSH ABM LAUNCHERS AT LAUNCH COMPLEX D, SARY SHAGAN MISSILE TEST CENTER WERE REMOVED IN FEBRUARY 1976. SINCE THAT TIME, THE ACTIVITY OF THE EGG HEAD RADAR DURING ABM TESTS AND THE CONSTRUCTION OF NEW TELEMETRY ANTENNAS AT THE COMPLEX SUGGESTS THAT COMPLEX D IS STILL INVOLVED IN ABM TESTING, ALTHOUGH NOT AS A LAUNCH AREA. ABM LAUNCHES ARE FROM COMPLEXES B AND F.

DETAILED ANALYSIS OF COMPLEXES B, D, F AND G REVEALS THAT COMPLEX D MOST CLOSELY RESEMBLES COMPLEX F IN TELEMETRY RECEIVING CAPABILITY. PARTICULARLY SIGNIFICANT IS THE PRESENCE OF D-BAND ANTENNAS AT BOTH COMPLEXES. D-BAND ANTENNAS GIVE COMPLEXES D AND F ACCESS TO A TELEMETRY FORMAT THAT IS RELATIVELY SECURE.

A RADIO RELAY TERMINAL CONSTRUCTED AT COMPLEX D DURING 1975 TIES THE COMPLEX INTO A LINE-OF-SITE COMMUNICATIONS SYSTEM THAT LINKS THE ENTIRE RANGEHEAD TOGETHER.

CIA INFR IS10065K-78 07 APR 78 []

SEC CLASS: 13

MSN: []

7P

ACCN: 5083765

25X1

GENERAL, CIVIL DEFENSE TRNG SITES RECOGNITION

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 10A

COMIREX NO:

IN THE EARLY 1970S, THE SOVIETS BEGAN A PROGRAM TO CONSTRUCT CIVIL DEFENSE TRAINING SITES AT OR NEAR INDUSTRIAL FACILITIES. EXTENSIVE LITERATURE EXISTS IN SOVIET JOURNALS ON THESE TRAINING SITES, BUT LITTLE HAS BEEN DONE PREVIOUSLY TO ESTABLISH BASIC RECOGNITION FEATURES FOR PHOTOGRAPHIC IDENTIFICATION. THE PURPOSE OF THIS REPORT IS TO SHOW THE KEY RECOGNITION FEATURES THAT CAN BE USED TO IDENTIFY SOVIET CIVIL DEFENSE TRAINING SITES ON OVERHEAD PHOTOGRAPHY. THERE ARE SUFFICIENT RECOGNITION FEATURES TO IDENTIFY MOST TRAINING SITES EVEN THOUGH THE PHYSICAL CHARACTERISTICS OF INDIVIDUAL SITES VARY.

THERE IS NO UNIFORMITY IN THE LOCATION OF THE TRAINING SITES IDENTIFIED TO DATE. KIEV AND LENINGRAD OBLASTS WERE THOROUGHLY SEARCHED, AND TEN TRAINING SITES WERE IDENTIFIED IN KIEV OBLAST WHILE ONLY ONE WAS FOUND IN LENINGRAD OBLAST. SIXTEEN ADDITIONAL SITES IN VARIOUS CITIES THROUGHOUT THE SOVIET UNION WERE STUDIED FOR THE PURPOSES OF THIS PAPER. OTHER TRAINING SITES UNDOUBTEDLY EXIST AND INDICATIONS ARE THAT MORE WILL BE CONSTRUCTED.

CIA INFR IS10069K-78 11 APR 78 []

SEC CLASS: 13

MSN: []

43P

ACCN: 5083766

25X1

DOROKHOVO RADIO RELAY STATION

WAC NO : 0167

BE/OBJ NO: []

UR 553320N 0362550E

IDHS CODE: []

EPF CAT : 25D

NPIC NO : - 183

DETKOVO RADIO RELAY STATION

WAC NO : 0167

BE/OBJ NO: []

COMIREX NO:

UR 551351N 0372900E

NPIC NO : - 70-J

25X1
25X1

25X1

25X1

1593

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
NIKONOVSKOYE RADIO RELAY/TV BROADCASTING CTR UR 551830N 0381240E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 121-X2
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
NIKONOVSKOYE RADIO RELAY/TV BROADCASTING CTR UR 551830N 0381240E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 121-X2
IDHS CODE: [] EPF CAT : 25B COMIREX NO: []
PUSHKINO RADIO RELAY STATION UR 560510N 0375518E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 111-A2
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
MALOYAROSLAVETS TV/RADIO RELAY STATION UR 550020N 0362805E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 101-C
IDHS CODE: [] EPF CAT : 25B COMIREX NO: []
ISTRA RADIO RELAY STATION UR 555220N 0365120E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 20-B
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
POSELOK RADIO RELAY STATION UR 560324N 0370447E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
MALOYAROSLAVETS TV/RADIO RELAY STATION UR 550020N 0362805E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 101-C
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
NARO FOMINSK RADIO RELAY STATION UR 522500N 0364850E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 121-P4
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
KLIN RADIO RELAY STATION UR 561948N 0364250E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 27-A1
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
RECHITSY RADIO RELAY STATION UR 553635N 0382740E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 79-A
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
BARYBINO RADIO COMMUNICATIONS RCVR STA HARD UR 551636N 0375542E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 121-W
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
KOBAYAKOVO RADIO RELAY STATION UR 553442N 0370049E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 15-C3
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
SAVELYEVO RADIO RELAY STATION UR 560803N 0370420E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 97-J1
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
CHERNAYA RADIO RELAY STATION UR 560630N 0373255E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 97-J3
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

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25X1

25X1

1594

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

KOSHCHEYKOVO RADIO RELAY STATION

WAC NO : 0154

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 560350N 0375610E

NPIC NO : - 111-A3

COMIREX NO: []

25X1

25X1.1

BEKASOVO RADIO RELAY STATION

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 552639N 0364939E

NPIC NO : - 121-P3

COMIREX NO: []

25X1

25X1

VNUKOVO AIRFIELD RADIO RELAY

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25H

UR 553627N 0371728E

NPIC NO : []

COMIREX NO: []

25X1

SOVKHOZ YAMSKIYE LESA RADIO RELAY STATION

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 555010N 0382940E

NPIC NO : - 12-C1

COMIREX NO: []

25X1

25X1

SANDAROVO RADIO RELAY STATION

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 551557N 0372956E

NPIC NO : - 70-J6

COMIREX NO: []

25X1

25X1

IMENI TSYURUPY RADIO RELAY STATION

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 553130N 0383930E

NPIC NO : - 128

COMIREX NO: []

25X1

25X1

OIA HAS ANALYZED 20 SELECTED MICROWAVE SITES LOCATED IN THE MOSCOW ARFA. EACH SITE IS DESCRIBED IN AN INDIVIDUAL STUDY WHICH IS KEYED TO A LOCATOR MAP AND CONSISTS OF: (1) A 'HEADER' SECTION WHICH INCLUDES THE SITE'S NAME, ITS LOCATION AND ELEVATION, THE SITE REFERENCE NUMBERS (E.G., BE NUMBER), AND MAP AND PHOTOGRAPHIC REFERENCES; (2) A 'REMARKS' SECTION WHICH PROVIDES INFORMATION ABOUT THE NUMBER, SIZE, AND TYPES OF ANTENNAS OBSERVED AND THEIR ORIENTATIONS AND ELEVATIONS; AND (3) AN ANNOTATED PHOTOGRAPH OF THE SITE.

25X1

1595
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CIA INFR IS10089K-78 25 APR 78 SEC CLASS: 13 MSN: 8P ACCN: 5083768 25X1

MURUNTAU GOLD ORE CONCENTRATION PLANT UR 412830N 0643120E
WAC NO : 0327 BE/OBJ NO: NPIC NO : - 20
IDHS CODE: EPF CAT : 30B COMIREX NO:
INDUSTRY, GOLD MINING ACTIVITY/EQUIPMENT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30A COMIREX NO:
ZARAFSHAN MINING ACTIVITY UR 4140 N 06412 E
WAC NO : 0327 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30A COMIREX NO:

25X1
25X1
25X1
25X1
25X1

THIS REPORT PROVIDES A SUMMARY OF THE MINING EQUIPMENT OBSERVED AT THE MURUNTAU GOLD PLANT AND A NEARBY OPEN PIT MINE, AND MINING ACTIVITY OBSERVED IN THE VICINITY OF ZARAFSHAN LOCATED 30KM WEST OF MURUNTAU.

25X1

CIA INFR IS10091K-78 24 APR 78 SEC CLASS: 14 X MSN: 11P ACCN: 5083769 25X1

MILITARY, GROUND FORCES O/B ESTIMATE PE
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

OIA ANALYZED ALL SATELLITE PHOTOGRAPHY ACQUIRED OF PERU TO ESTIMATE THE GROUND FORCE UNIT STRENGTH AND ORGANIZATION AND THE AMOUNT OF SOVIET MILITARY EQUIPMENT THAT HAS BEEN IMPORTED DURING THIS PERIOD.

25X1

CIA INFR IS10092K-78 21 APR 78 SEC CLASS: 13 MSN: 5P ACCN: 5083770 25X1

TRANSPORTATION, CHINESE ROAD CONSTRUCTION LA
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85A COMIREX NO:
TRANSPORTATION, POL PIPELINE NEW LA
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85E COMIREX NO:

THE CHINESE CONSTRUCTED EAST-WEST ROAD IN NORTHERN LAOS WILL APPARENTLY TERMINATE AT MUONG HIEM WHERE IT JOINS THE EXISTING LAO ROAD NETWORK. THE LAO ROADS WHICH CONNECT MUONG HIEM WITH BAN BAN AND SAM NEUA ARE CURRENTLY BEING UPGRADED TO A DUAL-LANE, ALL-WEATHER STATUS. THIS WORK COULD BE COMPLETED WITHIN TWO YEARS. THE CHINESE ARE CONSTRUCTING ONE NEW ROAD WHICH WILL APPARENTLY CONNECT LUANG PRABANG WITH THE EAST-WEST ROAD NEAR NAM BAC. IT WILL COVER OVER 100 KM AND WILL TAKE AT LEAST TWO YEARS TO COMPLETE. A POL PIPELINE HAS BEEN CONSTRUCTED IN THE LAST TWO YEARS FROM THE NAPE PASS TO A POINT 10 KM EAST OF THE MEKONG RIVER. THE PIPELINE IS PROBABLY A

25X1

1596
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DUAL LINE WHICH TIES IN WITH THE VIETNAMESE NATIONAL PIPELINE NETWORK.

CIA INFR IS10093J-78 25 APR 78 [] SEC CLASS: 24 MSN: [] 5P ACCN: S083771 25X1

MILITARY, BRIGADE DEPLOYMENT	WAC NO : []	BE/OBJ NO: []	ET
	IDHS CODE: []	EPF CAT : 35	NPIC NO : []
MILITARY, BRIGADE DEPLOYMENT		ETHIOPIA	COMIREX NO: []
	WAC NO : []	BE/OBJ NO: []	CU
	IDHS CODE: []	EPF CAT : 35	NPIC NO : []
			COMIREX NO: []

A LARGE MILITARY FORCE, INCLUDING THE MAJOR ELEMENTS OF THREE ETHIOPIAN BRIGADES AND A CUBAN MECHANIZED BRIGADE, HAS DEPLOYED TO THE NORTHERN ETHIOPIAN PROVINCES OF TIGRE AND ERITREA SINCE LATE MARCH. PHOTOGRAPHY OF LATE MARCH AND APRIL 1978 ARE CITED IN GIVING DETAILS ON TROOP AND EQUIPMENT MOVEMENT.*

CIA INFR IS10095K-78 25 APR 78 [] SEC CLASS: 13 MSN: [] 18P ACCN: S083772 25X1

CHIANGKOCHUANG NAVAL FACILITY PUG	WAC NO : 0381	BE/OBJ NO: []	CH 360612N 1203512F
	IDHS CODE: []	EPF CAT : 75B	NPIC NO : - 13-H4
TAYUANCHIATUN NAVAL FACILITY PUG	WAC NO : 0381	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 75B	CH 392248N 1214519E
CHIANGKOCHUANG NAVAL FACILITY NORTH	WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 55-B
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []
CHIANGKOCHUANG MISSILE HANDLING FACILITY	WAC NO : 0381	BE/OBJ NO: []	CH 360639N 1203353E
	IDHS CODE: []	EPF CAT : 75B	NPIC NO : - 13-H1
CHIANGKOCHUANG NAVAL SUPPORT	WAC NO : 0381	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 40	CH 360722N 1203550E
		FACIL WEST PROH	NPIC NO : - 13-H8
	WAC NO : 0381	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 75B	CH 360740N 1203615E
			NPIC NO : - 13-H7
			COMIREX NO: []

TWO CHINESE PARTIALLY UNDERGROUND NAVAL FACILITIES--BOTH LOCATED IN THE NORTH SEA FLFET AREA--HAVE RECENTLY ACHIEVED LIMITED OPERATIONAL CAPABILITY. ONE OF THESE FACILITIES, LOCATED AT CHIANG-KO-CHUANG, WILL PROBABLY PROVIDE SHELTERED BERTHING SPACE FOR SUBMARINES. THE OTHER FACILITY, LOCATED AT TA-YUAN-CHIA-TUN, WILL PROBABLY FUNCTION AS AN OVERHAUL AND REPAIR FACILITY.

CIA INFR IS10103K-78 03 MAY 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S083773 25X1

KRASNOZAVODSK TV + RADIO RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 562520N 0381500E
			NPIC NO : - 73-A3

1597
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 KRASNOZAVODSK TV + RADIO RELAY STATION UR 562520N 0381500E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 73-A3
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []
 ROGACHEVO RADIO RELAY STATION UR 562310N 0381830E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 73-A2
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

CIA INFR IS10105K-78 03 MAY 78 [] SEC CLASS: 13 MSN: 5P ACCN: S08377425X1

MILITARY, AAA SITES PASSIVE DEFENSE MEASURES CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:

PASSIVE DEFENSE MEASURES ARE EMPLOYED AT 55 PERCENT OF THE 159 AAA SITES THAT ARE DEPLOYED AROUND EIGHT STRATEGIC TARGETS IN CHINA. PASSIVE DEFENSE MEASURES WERE PRESENT AT ONLY THREE OF THE 10 REPORTED MAJOR MILITARY HEADQUARTERS FACILITIES THAT WERE STUDIED.

THE OVERALL PASSIVE DEFENSE EFFORT AT STRATEGIC AAA SITES IS LIMITED IN SCOPE AND LACKS SOPHISTICATION AND UNIFORMITY. ALTHOUGH REVETMENTS WERE USED TO HARDEN SLIGHTLY MORE THAN HALF OF THE SITES, THE AMOUNT OF REVETTING VARIED WIDELY BOTH WITHIN AND BETWEEN THE EIGHT TARGET AREAS STUDIED. THE CHINESE APPARENTLY HAVE NOT MADE A CONCERTED EFFORT TO CONCEAL THEIR STRATEGIC AAA GUNS WITH COVERED STORAGE OR CAMOUFLAGE. ALTHOUGH THE VEGETATION THAT SURROUNDS MANY AAA SITES MAKES OVERHEAD DETECTION SLIGHTLY MORE DIFFICULT, WE BELIEVE THAT IT IS PRIMARILY INTENDED FOR AGRICULTURAL PURPOSES. AS WOULD BE EXPECTED, THE CHINESE DO NOT APPEAR TO HAVE USED TERRAIN MASKING TO SHIELD THEIR AAA SITES; THE SITES THAT WE ANALYZED WERE POSITIONED ON FLAT TERRAIN OR ON HILLTOPS.

OIA IS UNABLE TO CONFIRM THE PRESENCE OF ANY COMMAND AND CONTROL OR COMMUNICATIONS FACILITIES AT THE EIGHT REPORTED MILITARY REGION HEADQUARTERS EXAMINED. TWO AREAS IN PEKING, ONE REPORTED TO BE THE GENERAL STAFF DEPARTMENT OF THE PEOPLE'S LIBERATION ARMY AND THE OTHER REPORTED TO BE PART OF THE MINISTRY OF NATIONAL DEFENSE, WERE PARTIALLY HARDENED IN THE EARLY 1970S.

CIA INFR IS10101K-78 02 MAY 78 [] SEC CLASS: 13 MSN: 2P ACCN: S08377425X1

AL MAADI ORDNANCE MAINT/STGE DPO SW TK TRANS EG 295605N 0311733E
 WAC NO : 0447 BE/OBJ NO: [] NPIC NO : - 2-B
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: []
 AL QAHIRAH ORDNANCE/QM DPO TK TRANS INCREASE EG 300820N 0312500E
 WAC NO : 0447 BE/OBJ NO: [] NPIC NO : - 2-R4
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

25X1

25X1

25X1

TWO HUNDRED TANK TRANSPORTERS HAVE BEEN NEWLY IDENTIFIED IN EGYPT AT AL MAADI ORDNANCE MAINTENANCE AND STORAGE DEPOT SW AND AL QAHIRAH ORDNANCE AND QUARTERMASTER DEPOT SINCE SEPTEMBER 1977. THESE RECENTLY ACQUIRED TANK TRANSPORTERS ARE WEST GERMAN MANUFACTURED FAUNS.*

1598
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B1-52804-78	MAY 78		SEC CLASS: 14B	MSN:		6P	ACCN: S083778	25X1
										25X1
TALGAR ENGINEER DEPOT										25X1
WAC NO : 0329										25X1
IDHS CODE:										25X1
BE/OBJ NO:										25X1
EPF CAT : 35F										25X1
UR 431945N 0771440E										25X1
NPIC NO : - 102										25X1
COMIREX NO:										25X1
DIA	IIM	5B1-58243-78	09 MAY 78		SEC CLASS: 14B	MSN:		2P	ACCN: S083779	25X1
										25X1
RAWICZ MILITARY BARRACKS 1										25X1
WAC NO : 0232										25X1
IDHS CODE:										25X1
BE/OBJ NO:										25X1
EPF CAT : 35A										25X1
COMIREX NO:										25X1
RAWICZ MILITARY BARRACKS 2 SEARCH										25X1
WAC NO : 0232										25X1
BE/OBJ NO:										25X1
PL 513655N 0165039E										25X1
NPIC NO : - 330										25X1
COMIREX NO:										25X1
PL 513655N 0165146E										25X1
NPIC NO :										25X1

1599
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA	IIM	5B1-58256-78	11 MAY 78		SEC CLASS: 14B	MSN:		5P	ACCN: 508378	25X1
		WALCZ ARMY BARRACKS 3								
		WAC NO : 0169		BE/OBJ NO:			PL 531642N 0162810E			25X1
		IDHS CODE:		EPF CAT : 35A			NPIC NO : - 260-A1			25X1
		WALCZ ARMY BARRACKS 4					COMIREX NO:			25X1
		WAC NO : 0169		BE/OBJ NO:			PL 531652N 0162849E			25X1
		IDHS CODE:		EPF CAT : 35A			NPIC NO : - 260-A2			25X1
		WALCZ ARMY BARRACKS 8 SEARCH					COMIREX NO:			25X1
		WAC NO : 0169		BE/OBJ NO:			PL 531628N 0162958E			25X1
		IDHS CODE:		EPF CAT : 35A			NPIC NO : - 260-A3			25X1
		COMIREX NO:								25X1
DIA	IIM	5B3-58265-78	12 MAY 78		SEC CLASS: 13	MSN:		2P	ACCN: 508378	25X1
		UFA AIRCRAFT ENGINE PLANT A26 CONSTRUCTION					UR 544735N 0560740E			
		WAC NO : 0165		BE/OBJ NO:			NPIC NO : - 30-F			25X1
		IDHS CODE:		EPF CAT : 05G			COMIREX NO:			25X1
DIA	NBRG	NDA07-5065-78	17 MAY 78		SEC CLASS: 05G	MSN:		1P	ACCN: 5083785	
		CHINCHOU MILITARY AREA 1					CH 4107 N 12106 E			
		WAC NO : 0289		BE/OBJ NO:			NPIC NO :			25X1
		IDHS CODE:		EPF CAT : 35			COMIREX NO:			25X1

1600
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA	NBRG	NDA07-5066-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083786
		CHINCHOU ARMY BARRACKS AL1 + HEADQUARTERS		CH	410810N 1210727E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	7-L2		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5067-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083787
		CHINCHOU ARMY BARRACKS NORTH AL4		CH	410950N 1210803E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	7-L4		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5068-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083788
		CHINCHOU ARMY BARRACKS AL6		CH	411340N 1211340E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	7-N2		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5069-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083789
		IHSIEN MILITARY AREA 1		CH	4132 N 12115 E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO :			25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:			25X1
DIA	NBRG	NDA07-5070-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083790
		IHSIEN ARMY BARRACKS AL1 + HEADQUARTERS		CH	413132N 1211157E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	15		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5071-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083791
		IHSIEN ARMY BARRACKS SOUTH AL3		CH	412601N 1211244E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	15-A		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5072-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083792
		IHSIEN ARMY BARRACKS SW AL2		CH	412726N 1211155E		
		WAC NO : 0289	BE/OBJ NO: []	NPIC NO : -	15-C		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X15X1
DIA	NBRG	NDA07-5073-78	17 MAY 78	SEC CLASS: 05G	MSN:	1P	ACCN: S083793

1601

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CHILIHU ARMY BARRACKS AL1		CH	412130N 1211352E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 15-B
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5074-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083794
CHICHIAPAOTZU ARMY BARRACKS AL1		CH	411740N 1211653E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 7-I
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5075-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083795
CHAOYANG MILITARY AREA 1		CH	4133 N 12025 E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO :
IDHS CODE:		EPF CAT : 35	COMIREX NO:	
DIA	NBRG	NDA07-5076-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083796
CHAOYANG ARMY BARRACKS AL5 + HQ INFANTRY DIV		CH	413516N 1202535E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 4-C6
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5077-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083797
NIUHO ARMY BARRACKS SW AL1		CH	412225N 1193700E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 64-A4
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5078-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083798
CHAOYANG ARMY BARRACKS AL4		CH	413550N 1202143E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 4-C4
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5079-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083799
CHAOYANG ARMY BARRACKS AL3		CH	413705N 1202815E	
WAC NO	: 0289	BE/OBJ NO:		NPIC NO : - 4-C5
IDHS CODE:		EPF CAT : 35A	COMIREX NO:	
DIA	NBRG	NDA07-5080-78	17 MAY 78	SEC CLASS: 05G MSN: 1P ACCN: S083800

1602
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NIUHO ARMY BARRACKS NORTH AL2 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 412745N 1193341E NPIC NO : - 64-A5 COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5081-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083801
CHAOYANG ARMY BARRACKS AL2 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 413305N 1202140E NPIC NO : - 4-C3 COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5082-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083802
HSINGCHENG MILITARY AREA 1 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35	CH 4037 N 12043 E NPIC NO : COMIREX NO:	25X1 25X1
DIA	NBRG	NDA07-5083-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083803
HSINGCHENG ARMY BARRACKS AL1/HQ INFANTRY DIV WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 403844N 1204249E NPIC NO : - 11-A COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5084-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083804
HULUTAO ARMY BARRACKS EAST AL1 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 404313N 1205609E NPIC NO : - 14-D1 COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5085-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083805
CHINHSI ARMY BARRACKS NE AL1 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 404647N 1205224E NPIC NO : - 19-F COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5086-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083806
CHINHSI ARMY BARRACKS SW AL2 WAC NO : 0289 IDHS CODE: <input type="text"/>		BE/OBJ NO: <input type="text"/> EPF CAT : 35A	CH 404213N 1204640E NPIC NO : - 11-B COMIREX NO: <input type="text"/>	25X1 25X1
DIA	NBRG	NDA07-5087-78 17 MAY 78	SEC CLASS: 056 MSN:	1P ACCN: S083807
HSINGCHENG ARMY BARRACKS SW AL2		CH 403311N 1203543E		

1603

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0289
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 35ANPIC NO : - 11-C
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA07-5063-78 12 MAY 78

SEC CLASS: 05B MSN:

1P

ACCN: S083808

BIYSK ARMY BARRACKS AL6

WAC NO : 0161
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 35AUR 523337N 0851754E
NPIC NO : - 6-K
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA07-5383-78 12 MAY 78

SEC CLASS: 05B MSN:

1P

ACCN: S083809

STRASICE ARMY BARRACKS 1

WAC NO : 0231
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 35ACZ 494400N 0134550E
NPIC NO : - 202-A2
COMIREX NO: [REDACTED]25X1
25X1

25X1

DIA NBRG NDA07-5110-78 12 MAY 78

SEC CLASS: 05B MSN:

1P

ACCN: S083812

JANOVICE NAD UHLAVOU ARMY BARRACKS SOUTH 1

WAC NO : 0231
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 35ACZ 492002N 0131227E
NPIC NO : - 267-B
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA07-5382-78 12 MAY 78

SEC CLASS: 05B MSN:

1P

ACCN: S083813

OTAR ARMY BARRACKS NORTH AL1/HEADQUARTERS MRD

WAC NO : 0329
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 35AUR 433438N 0751258E
NPIC NO : - 3-A1
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA07-5114-78 12 MAY 78

SEC CLASS: 05B MSN:

1P

ACCN: S083814

ARVAYHEER ARMY BARRACKS AL1

WAC NO : 0286

BE/OBJ NO: [REDACTED]

MG 462200N 1024800E
NPIC NO : - 6-A1

25X1

1604
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
 DIA NBRG NDA07-5111-78 12 MAY 78 SEC CLASS: 05G MSN: 1P ACCN: S083815
 SPASSK DALNIY ARMY BARRACKS AL1
 WAC NO : 0282 BE/OBJ NO: [] UR 443558N 1324945E
 IDHS CODE: [] EPF CAT : 35A NPIC NO : - 4A-H 25X1
 COMIREX NO: [] 25X1
 DIA NBRG NDA07-5112-78 12 MAY 78 SEC CLASS: 05G MSN: 1P ACCN: S083816
 SPASSK DALNIY SSM BARRACKS AL3/HQ SS-1 BRGD
 WAC NO : 0282 BE/OBJ NO: [] UR 443526N 1324905E
 IDHS CODE: [] EPF CAT : 35A NPIC NO : - 4A-A2 25X1
 COMIREX NO: [] 25X1
 DIA NBRG NDA07-5113-78 12 MAY 78 SEC CLASS: 05G MSN: 1P ACCN: S083817
 KHABAROVSK MILITARY BARRACKS AL11
 WAC NO : 0204 BE/OBJ NO: [] UR 483132N 1350220E
 IDHS CODE: [] EPF CAT : 35A NPIC NO : - 14-D4 25X1
 COMIREX NO: [] 25X1
 NPIC IIR IIR027-78 08 MAY 78 SEC CLASS: 05G MSN: 6P ACCN: S083818
 MILITARY TRAINING EXERCISES
 WAC NO : BE/OBJ NO: KN
 IDHS CODE: EPF CAT : 35B NPIC NO :
 PYONGYANG MANEUVER AREA SE TRAINING EXER COMIREX NO:
 WAC NO : 0380 BE/OBJ NO: KN 385650N 1255400E
 IDHS CODE: [] EPF CAT : 35B NPIC NO : - 11-K4 25X1
 COMIREX NO: [] 25X1
 SONCHON AIRFIELD SW ROCKET LAUNCHER EXERCISE KN 394510N 1244915E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO : - 155-A1 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
 SONCHON AIRFIELD SW ROCKET LAUNCHER EXERCISE KN 394510N 1244915E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO : - 155-A1 25X1
 IDHS CODE: [] EPF CAT : 35B COMIREX NO: [] 25X1
 PYONG NI RIVER CROSSING EXERCISE KN 392140N 1255520E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35B COMIREX NO:
 CHUNGSAK UP AAA EXERCISE KN 390710N 1251715E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35B COMIREX NO:
 PYONGYANG FIELD ARTILLERY EXERCISE KN 390500N 1260540E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35B COMIREX NO:

1605

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ARMOR, ARTILLERY, AND ENGINEER TRAINING EXERCISES WERE OBSERVED IN THE NORTH KOREAN THIRD CORPS AREA ON
IMAGERY OF [REDACTED] ALL OF THE EXERCISES OBSERVED WERE OF REGIMENT SIZE OR LARGER, INCLUDING ONE
DIVISION-SIZED, COMBINED-ARMS EXERCISE WHICH IS THE LARGEST EXERCISE EVER OBSERVED IN NORTH KOREA.

25X1

25X1

NPIC SR SR039-78 MAY 78 [REDACTED] SEC CLASS: 14B MSN: 2P ACCN: 5083P225X1

KAPUSTIN YAR MTC MRBM/IRBM AREA MAZ VEH IDENT UR 483647N 0460935E
WAC NO : 0235 BE/OBJ NO: [REDACTED] NPIC NO : - 10-E1
IDHS CODE: [REDACTED] EPF CAT : 40B COMIREX NO: [REDACTED]
MILITARY, MAZ-TYPE VEHICLE 5-AXLE NEW UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1
25X1

A NEW, FIVE-AXLE, MAZ-TYPE VEHICLE HAS BEEN IDENTIFIED AT THE KAPUSTIN YAR MRBM/IRBM BIVOUAC TROOP
TRAINING AREA. NEITHER THE FUNCTION OF THE VEHICLE NOR ITS ASSOCIATION WITH A SPECIFIC WEAPON SYSTEM HAS
BEEN DETERMINED AT THIS TIME.*

25X1

1606
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
23A1

25X1

CIA	IRP	IS10051K-78	APR 78		SEC CLASS: 13	MSN:	24P	ACCN: S083823	25X1
KAZAN AIRFRAME PLANT GORBUNOV 22 EXPANSION									
WAC NO : 0165		BE/OBJ NO: []		UR	555140N 0490700E				
IDHS CODE: []		EPF CAT : 05G			NPIC NO : - 14-6				25X1
VORONEZH AIRFRAME PLANT 64 EXPANSION					COMIREX NO: []				25X1
WAC NO : 0234		BE/OBJ NO: []		UR	513819N 0391517E				
IDHS CODE: []		EPF CAT : 05G			NPIC NO : - 46-F				25X1
SMOLENSK GUIDED MSL + A/C CMPNT PLT 475 EXPSN					COMIREX NO: []				25X1
WAC NO : 0167		BE/OBJ NO: []		UR	544910N 0320245E				23A1
IDHS CODE: []		EPF CAT : 40E			NPIC NO : - 77-A2				25X1
SMOLENSK GUIDED MSL + A/C CMPNT PLT 475 EXPSN					COMIREX NO: []				25X1
WAC NO : 0167		BE/OBJ NO: []		UR	544910N 0320245E				25X1
IDHS CODE: []		EPF CAT : 05G			NPIC NO : - 77-A2				25X1
KUYBYSHEV AIRFRAME PLANT LENIN 18 EXPANSION				UR	531300N 0501814E				
WAC NO : 0165		BE/OBJ NO: []			NPIC NO : - 19-A				25X1
IDHS CODE: []		EPF CAT : 05G			COMIREX NO: []				225X1
SARATOV AIRFRAME PLANT 292 EXPANSION				UR	512948N 0455703E				
WAC NO : 0235		BE/OBJ NO: []			NPIC NO : - 14-A				25X1
IDHS CODE: []		EPF CAT : 05G			COMIREX NO: []				25X1
TASHKENT AIRFRAME PLANT B CHKALOV 84 EXPSN				UR	411802N 0691904E				

25X1

1607
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0328 BE/OBJ NO: NPIC NO : - 27-N
 IDHS CODE: EPF CAT : 05G COMIREX NO:
 AIRCRAFT, AIRFRAME PLTS FINAL ASBLY CPLXS U/C UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

PHOTOGRAPHIC ANALYSIS OF THE NINE MAJOR SOVIET AIRFRAME PLANTS PRODUCING BOMBERS AND MILITARY AND CIVILIAN TRANSPORTS REVEALS THAT THE FINAL ASSEMBLY FACILITIES AT SIX ARE BEING EXPANDED BY THE CONSTRUCTION OF NEW AND MORE MODERN FINAL ASSEMBLY COMPLEXES. SUCH EXPANSION IS UNDER WAY AT AIRFRAME PLANTS AT KAZAN, VORONEZH, SMOLENSK, KUYBYSHEV, SARATOV, AND TASHKENT. WHEN COMPLETE, THIS EXPANSION PROGRAM WILL INCREASE THE TOTAL FINAL ASSEMBLY SPACE AT THESE PLANTS BY AN AVERAGE OF 175 PERCENT, WITH THE LARGEST INCREASE--250 PERCENT--OCCURRING AT KAZAN. MAJOR INCREASES IN FINAL ASSEMBLY FACILITIES ALMOST ALWAYS SIGNAL EITHER THE BEGINNING OF NEW PRODUCTION PROGRAMS OR THE ACCELERATION OF EXISTING PROGRAMS.

CIA IRP IS10077J-78 APR 78 SEC CLASS: 24 MSN: 13P ACCN: S08382425X1

MISSILES, CSS-1/2 AZIMUTHS PHOTO INDICATIONS CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40B COMIREX NO:
 PHOTO, INDICATIONS CSS-1/2 LAUNCH AZIMUTHS CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 65 COMIREX NO:

DETAILED IMAGERY ANALYSIS OF CHINESE CSS-1 MEDIUM-RANGE AND CSS-2 INTERMEDIATE-RANGE BALLISTIC MISSILE SITES HAS REVEALED THAT CERTAIN FEATURES OF A SITE CAN BE USED TO DETERMINE THE INTENDED MISSILE LAUNCH AZIMUTH AND THEREFORE THE INTENDED TARGET AREA. THE MOST IMPORTANT OF THESE IS THE MISSILE LOADING AZIMUTH, WHICH CAN BE ASCERTAINED FROM THE ORIENTATION OF THE LOADING APRON OR THE ACCESS ROAD. PHOTOGRAPHIC ANALYSIS OF SEVEN SITES FROM WHICH MISSILES HAVE BEEN LAUNCHED TO KNOWN IMPACT AREAS SHOWS THAT THE LAUNCH AZIMUTH IS APPROXIMATELY 45 DEGREES CLOCKWISE FROM THE LOADING AZIMUTH.

DIA IIM SB3-58312-78 15 MAY 78 SEC CLASS: 13 MSN: 3P ACCN: S08382525X1

SEMENOVSKOYE/SHIDROVO AIRFIELD UR 624919N 0424752E
 WAC NO : 0102 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1
25X11608
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-58310-78 15 MAY 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5083828 25X1

LAMUTSKOYE AIRFIELD

WAC NO : 0074

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 653213N 1684958E

NPIC NO :

COMIREX NO:

25X1

DIA IIM 5B3-58293-78 15 MAY 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: 5083829 25X1

VORONEZH AIRFIELD SW HIND CANISTERS/MSLS U/I

WAC NO : 0234

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 513711N 0390842E

NPIC NO : - 46-C

COMIREX NO: []

25X1

25X1

VORONEZH AIRFIELD SW HIND CANISTERS/MSLS U/I

WAC NO : 0234

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 40

UR 513711N 0390842E

NPIC NO : - 46-C

COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B3-58260-78 15 MAY 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5083831 25X1

RYBINSK AIRCRAFT ENGINE PLANT 36

WAC NO : 0154

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05G

UR 580307N 0384833E

NPIC NO : - 52-I

COMIREX NO: []

25X1

25X1.1

25X1

1609
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-58309-78 16 MAY 78 SEC CLASS: 13 MSN: 2P
KAZAN AIRCRAFT ENGINE PLANT 16 UR 555119N 0490620E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 14-B
IDHS CODE: EPF CAT : 05G COMIREX NO:

ACCN: S08383325X1

25X1
25X1

25X1

DIA IIM 5B1-58275-78 09 MAY 78 SEC CLASS: 14B MSN: 3P
TAMBOV AVTOKOLONNA 1309 UR 524118N 0412612E
WAC NO : 0166 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85A COMIREX NO:

ACCN: S08383625X1

25X1
25X1

DIA IIM 5B3-58317-78 17 MAY 78 SEC CLASS: 13 MSN: 2P
VORONEZH AIRCRAFT ENGINE PLANT 154 UR 513917N 0391007E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 46-N
IDHS CODE: EPF CAT : 05G COMIREX NO:

ACCN: S08383725X1

25X1
25X1

DIA IIM 5B3-58320-78 19 MAY 78 SEC CLASS: 13 MSN: 1P
BACAU AIRCRAFT REPAIR BASE RO 463122N 0265500E
WAC NO : 0251 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05F COMIREX NO:

ACCN: S08383825X1

25X1
25X1

1610
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-58321-78 17 MAY 78

SEC CLASS: 13

MSN:

2P

ACCN: S083839 25X1

OMSK AIRCRAFT + MISSILE ENG PLANT BARANOVA 29

WAC NO : 0163

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40E

UR 545742N 0732523E

NPIC NO : - 5-D

COMIREX NO:

OMSK AIRCRAFT + MISSILE ENG PLANT BARANOVA 29

WAC NO : 0163

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05G

UR 545742N 0732523E

NPIC NO : - 5-D

COMIREX NO:

DIA IIM 5B3-58345-78 18 MAY 78

SEC CLASS: 13

MSN:

2P

ACCN: S083840 25X1

NIVSKIY AIRFIELD

WAC NO : 0091

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05A

UR 672600N 0354930E

NPIC NO :

COMIREX NO:

1611

TOP SECRET CHESS RUFF

25X1

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[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1
25X1

25X1

OIA IIM 5B3-58266-78 18 MAY 78 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 17P ACCN: S0838625X1

AIRFIELDS, RUNWAY COMPOSITION STUDY UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

AIRFIELDS, RUNWAY COMPOSITION STUDY PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:
AIRFIELDS, RUNWAY COMPOSITION STUDY CZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:
AIRFIELDS, RUNWAY COMPOSITION STUDY HU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

1614
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC SR SR040-78 MAY 78 SEC CLASS: 14E MSN: 6P ACCN: S08387-25X1

MILITARY, ARMOR ACTIVITY JANUARY 77-MARCH 78 CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

SIGNIFICANT ARMOR ACTIVITY WAS OBSERVED AT 13 INSTALLATIONS AND THREE TRAINING EXERCISES IN FIVE MILITARY REGIONS (MRS) IN THE PEOPLE'S REPUBLIC OF CHINA (PRC) DURING THE PERIOD OF 1 JANUARY 1977 TO 1 APRIL 1978. INCREASED ARMORED VEHICLE PRODUCTION WAS ALSO OBSERVED AT THE TWO MAJOR ARMORED VEHICLE PRODUCTION PLANTS IN THE PEKING MR DURING THE SAME PERIOD. THE PRC CONTINUED TO IMPROVE ITS DEPLOYED ARMORED FORCES, PARTICULARLY IN THE SINO-SOVIET BORDER AREA, WITH AN UPGRADING OF EXISTING ARMOR UNITS AND THE ESTABLISHMENT OF NEW TANK REGIMENTS. BTR-50P-TYPE AMPHIBIOUS ARMORED PERSONNEL CARRIERS (APCS) WERE OBSERVED FOR THE FIRST TIME IN THE PRC IN THE NAN-CHING MR.

1618
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC PIR PIR019-78 MAY 78 [] SEC CLASS: 14B MSN: [] 9P ACCN: S083875 25X1

MILITARY, GROUND FORCES REALIGNMENT KIEV MD UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:
 MILITARY, MT-55 TANK LAUNCHED BRIDGE CZ
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:
 MILITARY, BRIDGE MEDIUM CLASS NEW PROR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

THIS REPORT PRESENTS AN IMAGERY-DERIVED ANALYSIS OF CHANGES IN UNIT LOCATIONS AND THE IDENTIFICATION OF DIVISIONAL UNITS, PROBABLE MOBILIZATION UNITS, AND AN ARMY-/FRONT-LEVEL UNIT IN THE KIEV MILITARY DISTRICT. IN ADDITION, A BRIEF DISCUSSION OF CZECHOSLOVAKIAN AND NEW SOVIET BRIDGING EQUIPMENT, RECENTLY DEPLOYED WITH COMBAT UNITS WITHIN THE KIEV MD, IS PRESENTED. THE REPORT CONTAINS ONE MAP AND NINE ANNOTATED PHOTOGRAPHS.

NPIC SR SR041-78 MAY 78 [] SEC CLASS: 14A MSN: [] 3P ACCN: S083876 25X1

POTCHEFSTROOM MUNITIONS R+D + TRNG FAC IDENT SF 263810S 0270255E
 WAC NO : 1300 BE/OBJ NO: NPIC NO : - 8-D
 IDHS CODE: EPF CAT : 35G COMIREX NO:
 POTCHEFSTROOM MUNITIONS R+D + TRNG FAC IDENT SF 263810S 0270255E
 WAC NO : 1300 BE/OBJ NO: NPIC NO : - 8-D
 IDHS CODE: EPF CAT : 35B COMIREX NO:

25X1

25X1

25X1

25X1

POTCHEFSTROOM MUNITIONS RESEARCH AND DEVELOPMENT/TESTING AND EVALUATION (R+D/T+E) FACILITY AND TRAINING AREA, SOUTH AFRICA, [] THE MUNITIONS R+D/T+E FACILITY, THE FIRST OF ITS TYPE IDENTIFIED IN SOUTH AFRICA, CONSISTS OF SEVEN DIRECT-FIRE BALLISTICS CALIBRATION RANGES, ONE HIGH-TRAJECTORY BALLISTICS RANGE, ONE POSSIBLE T-SHAPED DROP TOWER (FUSE TEST), AND ONE POSSIBLE BUNKERED STORAGE AREA.

25X1

CIA IRA IS10100K-78 APR 78 [] SEC CLASS: 13 MSN: [] 29P ACCN: S083877 25X1

GENERAL, CIVIL DEFENSE FACS PHOTO SIGNATURES UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 10A COMIREX NO:

THIS PAPER WAS ASSEMBLED BY THE CENTRAL INTELLIGENCE AGENCY'S OFFICE OF IMAGERY ANALYSIS (OIA) IN ORDER TO GATHER IN ONE DOCUMENT PHOTOGRAPHIC SIGNATURES FOR SOVIET CIVIL DEFENSE PRACTICES. IT IS INTENDED THAT IT BE USED AS AN AID TO IMAGERY ANALYSTS IN ACCOMPLISHING THEIR TASKS IN THE IDENTIFICATION AND ANALYSIS

1619

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

OF SOVIET CIVIL DEFENSE MEASURES. TOPICS INCLUDED IN THIS PAPER ARE: SHELTERS, SHELTER MEASUREMENTS, CIVIL DEFENSE UNITS, TRAINING SITES, GRAIN STORAGE BUNKERS, FOOD STORAGE FACILITIES, AND WATER STORAGE BUNKERS. IT IS NOT INTENDED TO BE A COMPLETE AND FORMAL CIVIL DEFENSE PHOTO INTERPRETATION KEY. OIA ENVISIONS CHANGES AND ADDITIONS AS NEW SIGNATURES ARE ESTABLISHED AND ADDITIONAL INFORMATION BECOMES AVAILABLE.

25X1

NPIC	MEMO	19 MAY 78	SEC CLASS: 14D	MSN:	4P	ACCN: 508387	25X1
MOGZON RADIO RELAY STATION PROB	WAC NO : 0201	BE/OBJ NO: []	UR	514612N 1115924E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : - 68			25X1
CHITA RADIO RELAY STATION NW	WAC NO : 0199	BE/OBJ NO: []	UR	520715N 1131630E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : - 2-V9			25X1
TANKHOY RADIO RELAY STATION	WAC NO : 0241	BE/OBJ NO: []	UR	513400N 1050920E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : - 2			25X1
BABUSHKIN RADIO RELAY STATION	WAC NO : 0166	BE/OBJ NO: []	UR	564120N []			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : - 39-H3			25X1
BOLSHAYA RECHKA RADIO RELAY STATION	WAC NO : 0201	BE/OBJ NO: []	UR	515750N 1061745E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : - 83			25X1
SARANKA RADIO RELAY STATION	WAC NO : 0201	BE/OBJ NO: []	UR	513200N 1111220E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : []			25X1
KHILOK RADIO RELAY STATION	WAC NO : 0201	BE/OBJ NO: []	UR	512020N 1102630E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : 81			25X1
KHOKHOTUY RADIO RELAY STATION	WAC NO : 0201	BE/OBJ NO: []	UR	511430N 1093330E			25X1
	IDHS CODE: []	EPF CAT : 25D		NPIC NO : []			25X1
NOVOPAVLOVKA RADIO RELAY STATION	WAC NO : 0201	BE/OBJ NO: []	UR	511030N 1091240E			25X1
				NPIC NO : 13-R			25X1

1620
TOP SECRET CHESS RUFF25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 NOVOILINSK RADIO RELAY STATION UR 513920N 1084130E
 WAC NO : 0201 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 PETROVSK ZABAYKALSKIY RADIO RELAY STATION UR 511630N 1085204E
 WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 10-C2
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 ILINKA RADIO RELAY STATION UR 520519N 1071626E
 WAC NO : 0200 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 DARASUN RADIO RELAY STATION UR 514100N 1135000E
 WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 24-D
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 TURUNTAYEVO TV RELAY STATION UR 521300N 1073850E
 WAC NO : 0200 BE/OBJ NO: [] NPIC NO : - 22-B
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []
 ULAN UDE RADIO RELAY STATION NORTH UR 515930N 1074340E
 WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 18-E
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 ULAN UDE TV + FM BROADCASTING CENTER UR 514821N 1073615E
 WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 18-C4
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []

25X1

25X1
25X125X1
25X125X1
25X125X1
25X1

25X1

25X1

25X1
25X1

AF PAR 2-78 15 FEB 78

SEC CLASS: 00B MSN:

2P

ACCN: 5083880

AIRCRAFT: COALER A AN-72 DIMENSIONS

UR

WAC NO :

BE/OBJ NO: []

NPIC NO :

IDHS CODE:

EPF CAT : 05D

COMIREX NO:

AF PAR 4-78 03 APR 78

SEC CLASS: 07 MSN:

2P

ACCN: 5083881

AIRCRAFT: CANDID IL-76

WAC NO :

BE/OBJ NO: []

NPIC NO :

IDHS CODE:

EPF CAT : 05D

COMIREX NO:

25X1

DRAWING 71E1019 SUPPLEMENTS THIS REPORT.*

25X1

1621

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

WAC NO : 0382 BE/OBJ NO: NPIC NO : - 77-D
IDHS CODE: EPF CAT : 25C COMIREX NO:
WUCHAI MTC SITE D INSTRUMENTATION FACILITIES CH 385044N 1113649E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 77-G1
IDHS CODE: EPF CAT : 25C COMIREX NO:
WUCHAI MTC INSTRUMENTATION FACILITIES CH 384950N 1113620E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 77-F
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT CONTAINS A CURRENT DESCRIPTION AND CHRONOLOGY FOR THE INSTRUMENTATION POSITIONS AT THE
WU-CHAI MTC LAUNCH SITES A, B, AND D AND THE RANGEHEAD COMMAND POST AND MOBILE INSTRUMENTATION SITE FOR
THE PERIOD FROM JAN 77 THROUGH DEC 77.
RELATED INFORMATION IS CONTAINED IN PAR 77-722.*

AF PAR 535-78 04 APR 78 SEC CLASS: 13 MSN: 62P ACCN: S08388

ALEYSK ICBM COMPLEX CP BUNKERED COMSAT FACIL UR 522922N 0824457E
WAC NO : 0162 BE/OBJ NO: NPIC NO : - 33-62
IDHS CODE: EPF CAT : 25C COMIREX NO:
ANASTASYEVKA RADIO COMMO RCVR STA COMSAT FACS UR 483547N 1353429E
WAC NO : 0204 BE/OBJ NO: NPIC NO : - 41-B1
IDHS CODE: EPF CAT : 25C COMIREX NO:
BAKHCHISARAY NAVAL RADCOM RCVR STA COMSAT FAC UR 444440N 0333640E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 131
IDHS CODE: EPF CAT : 25C COMIREX NO:
CHITA SRF ARMY COMMAND POST COMSAT FACILS MBL UR 520905N 1133215E
WAC NO : 0199 BE/OBJ NO: NPIC NO : - 2-W4
IDHS CODE: EPF CAT : 25C COMIREX NO:
CHITA SRF ARMY HQ RADIO COMMO XMTR BKR HARD UR 520324N 1131137E
WAC NO : 0199 BE/OBJ NO: NPIC NO : - 2-U1
IDHS CODE: EPF CAT : 25C COMIREX NO:
KARTALY ICBM COMPLEX COMD POST BKR COMSAT FAC UR 530222N 0603634E
WAC NO : 0164 BE/OBJ NO: NPIC NO : - 5-F1
IDHS CODE: EPF CAT : 25C COMIREX NO:
KHMELNITSKIY ICBM COMPLEX CP BKR COMSAT FACS UR 492329N 0270403E
WAC NO : 0233 BE/OBJ NO: NPIC NO : - 26-A1
IDHS CODE: EPF CAT : 25C COMIREX NO:

KALININGRAD COMMAND CONTROL FACS NORTH COMSAT UR 545720N 0201645E
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 57-K
IDHS CODE: EPF CAT : 25C COMIREX NO:

1622
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IRKUTSK COMSAT STATION NNE
WAC NO : 0200 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
KOLOMNA RADCOM XMTR GENERAL STAFF COMSAT FACS
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
KOSTROMA ICBM HQ RADCOM RCVR BKR COMSAT FACS
WAC NO : 0154 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
IRKUTSK COMSAT STATION NORTH
WAC NO : 0200 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
DARASUN COMSAT STATION
WAC NO : 0201 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
DOMBAROVSKIY ICBM COMPLEX CP BKR COMSAT FACS
WAC NO : 0236 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
OMSK SRF ARMY HQ RADCOM XMTR BKR COMSAT FACS
WAC NO : 0163 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
OMSK SRF ARMY COMMAND POST BKR COMSAT FACILS
WAC NO : 0163 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
OLOVYANNAYA ICBM COMPLEX CP BKR COMSAT FACILS
WAC NO : 0202 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
MOZYR MRBM DIVISION HEADQUARTERS COMSAT STA
WAC NO : 0168 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
MISHELEVKA HEN HOUSE RADAR FACIL COMSAT FACIL
WAC NO : 0200 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
SARY OZEK COMSAT STATION
WAC NO : 0244 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
SARY SHAGAN MTC COMSAT STATION TYPE C
WAC NO : 0245 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
SARAPULSKOYE RADIO COMMO RCVR STA COMSAT FACS
WAC NO : 0204 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25C
POKROVKA RADIO RELAY + RADCOM XMTR COMSAT FAC

UR 522339N 1042223E
NPIC NO : - 4-V1
COMIREX NO: []
UR 545930N 0385650E
NPIC NO : - 134-R1
COMIREX NO: []
UR 575237N 0411628E
NPIC NO : - 29-F5
COMIREX NO: []
UR 522354N 1042236E
NPIC NO : - 4-C1
COMIREX NO: []
UR 512820N 1135140E
NPIC NO : - 56-A
COMIREX NO: []
UR 510146N 0595227E
NPIC NO : - 12-G1
COMIREX NO: []
UR 545613N 0740739E
NPIC NO : - 44
COMIREX NO: []
UR 550602N 0733456E
NPIC NO : - 5-T6
COMIREX NO: []
UR 504925N 1154810E
NPIC NO : - 77-P
COMIREX NO: []
UR 520432N 0290625E
NPIC NO : []
COMIREX NO: []
UR 525232N 1031536E
NPIC NO : - 2-D
COMIREX NO: []
UR 442500N 0775645E
NPIC NO : - 30-A9
COMIREX NO: []
UR 463837N 0743105E
NPIC NO : []
COMIREX NO: []
UR 485045N 1355825E
NPIC NO : - 40-C
COMIREX NO: []
UR 435700N 1314032E

25X1
25X125X1
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1623

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

WAC NO : 0291 BE/OBJ NO: NPIC NO : - 74-A1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
PERVOMAYSK ICBM COMPLEX CP BKR COMSAT FACILS UR 480600N 0305207E 25X1
WAC NO : BE/OBJ NO: NPIC NO : - 44-B3 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 225X1
TEYKOVO ICBM COMPLEX CP BUNKER COMSAT FACILS UR 565207N 0403046E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 58-A2 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
TATISHCHEVO ICBM COMPLEX CP BKR COMSAT FACILS UR 514044N 0453728E 25X1
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 49-M2 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
SVOBODNY ICBM HQ RADCOM XMTR NORTH COMSAT UR 513847N 1280737E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 27-X 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
SVOBODNY ICBM COMPLEX CP BKR COMSAT FACILS UR 514550N 1280749E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 27-C1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
PERM ICBM HEADQUARTERS RADCOM RCVR COMSAT FAC UR 574550N 0561125E
WAC NO : 0156 BE/OBJ NO: NPIC NO : - 16-R2 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
ORENBURG SRF ARMY HEADQUARTERS COMSAT STATION UR 514648N 0551030E
WAC NO : 0236 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
LUSTENICE COMSAT STATION CGF CZ 501850N 0145510E
WAC NO : BE/OBJ NO: NPIC NO : - 138-G3 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
KOZELSK ICBM HQ RADCOM RCVR BKR COMSAT FACILS UR 540358N 0354620E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 137-A1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
UROVYANAYA ICBM COMPLEX CP BKR COMSAT FACILS UR 513310N 1130152E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 53-K1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
PARATUNKA NAVAL RADCOM RCVR HARD COMSAT FAC UR 530126N 1581434E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 12-F1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
IVANKOVO ELECTRONICS R+D FACILITY PROR UR 564350N 0370600E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 1A-F1 25X1
IDHS CODE: EPF CAT : 25E COMIREX NO: 25X1
KHABAROVSK RADIO COMMO RCVR KGB COMSAT FAC UR 482809N 1351524E
WAC NO : 0204 BE/OBJ NO: NPIC NO : - 7-Y3 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
DOBROALEKSANDROVKA RADCOM RCVR KGB COMSAT FAC UR 462010N 0303310E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 99-A1 25X1

1624

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YOSHKAR OLA ICBM COMPLEX CP BKR COMSAT FACILS UR 563407H 0480309F
WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 15-02
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
ZHANGIZTOBE ICBM COMPLEX CP BKR COMSAT FACS UR 491228N 0811041F
WAC NO : 0239 BE/OBJ NO: [] NPIC NO : - 35-A6
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YENISEYSK RADIO COMMO/RELAY XMTR SOUTH COMSAT UR 582122N 0922415E
WAC NO : 0159 BE/OBJ NO: [] NPIC NO : - 14-D
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YEDROVO ICBM COMPLEX CP BUNKER COMSAT FACILS UR 575204N 0334129F
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 72-H1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YELIZOVO NAVAL RADIO COMMO XMTR COMSAT FACILS UR 531153N 1582656F
WAC NO : 0194 BE/OBJ NO: [] NPIC NO : - 12-T1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
VLADIMIR SRF ARMY HQ RDO XMTR BKR COMSAT FACS UR 561351N 0400551F
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 156
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
VINNITSA SRF ARMY HQ RDO XMTR BKR COMSAT FACS UR 493030N 0280010F
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 64-0
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
VINNITSA SRF ARMY/LRA HQ RADCOM XMTR COMSAT UR 491237N 0281711E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 64-L
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
UZHUR ICBM COMPLEX COMO POST BKR COMSAT FACS UR 551647N 0894907F
WAC NO : 0161 BE/OBJ NO: [] NPIC NO : - 13-J2
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
TIMPUR NAVAL RADIO COMMO RCVR BKR COMSAT FAC UR 431214N 1320726E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 1-L
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
TYURATAM MTC ICBM DIV CP BKR COMSAT FACILS UR 455911N 0630757E
WAC NO : 0246 BE/OBJ NO: [] NPIC NO : - 6-M1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
ELECTRONICS, COMSAT FACILITIES MILITARY ASSOC CZ
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
ELECTRONICS, COMSAT FACILITIES MILITARY ASSOC UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

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25X1

25X1

25X1

1625

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

KOMSOMOLSK COMSAT CONTROL STATION KHURMULI
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 26-A
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YENISEYSK ESV TRACKING/MOLNIYA FACILITY
WAC NO : 0159 BE/OBJ NO: [] NPIC NO : - 14
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YEVPATORIYA DEEP SPACE TRACKING FACIL NORTH
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 81-G
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
ULAN UDE ESV TRACKING FACILITY
WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 18-D
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
SARY SHAGAN MTC ESV TRACKING/MOLNIYA FACILITY
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 38
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
SIMFEROPOL SPACE FLIGHT CENTER DISH ANTENNAS
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 65-H
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
POLICHNYA COMSAT STATION SUSP
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 98
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
NARO FOMINSK SRF RADCOM RCVR CPLX ORBITA STA
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 62-C
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
POGRANICHNYY ESV TRACKING MOLNIYA FACILITY
WAC NO : 0194 BE/OBJ NO: [] NPIC NO : - 20
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
MOSKVA/SHCHELKOVO ESV TRACKING FACILITY
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 58-L
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
KOMSOMOLSK COMSAT STATION NW
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 13-W4
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
LENINGRAD SPACE TRACKING FACILITY
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 102-W4
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
GALENKI ESV TRACKING/MOLNIYA FACILITY
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 9-C
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
SHCHUCHIY NAVAL RADCOM RCVR BKR COMSAT FACIL
WAC NO : 0051 BE/OBJ NO: [] NPIC NO : - 62-A
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
BELOOMUT COMSAT STATION
UR 510142N 1364950E
UR 582643N 0921604E
UR 451325N 0330955E
UR 515223N 1075650E
UR 455338N 0733727E
UR 450326N 0335342E
UR 553630N 0345450E
UR 551918N 0364749E
UR 530546N 1582039E
UR 555644N 0375803E
UR 504140N 1364455E
UR 594300N 0301000E
UR 440130N 1314545E
UR 690232N 0333815E
UR 545740N 0392600E

25X1
25X125X1
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25X1

25X1

1626
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

WAC NO : 0166	BE/OBJ NO: []	NPIC NO : - 153-A	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
GOLITSYNO RADIO	COMMO RECEIVER CPLX ORBITA	UR 553525N 0370301E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 15-C	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
GUS KHRUSTALNYY	COMSAT STATION CENTRAL	UR 553444N 0405418E	
WAC NO : 0166	BE/OBJ NO: []	NPIC NO : - 132	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
GLADKAYA ICBM COMPLEX CP BKR	COMSAT FACILS	UR 561419N 0921918E	
WAC NO : 0159	BE/OBJ NO: []	NPIC NO : - 7-Y1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
IMENI GASTELLO ICBM COMPLEX CP BKR	COMSAT FAC	UR 510728N 0662026E	
WAC NO : 0237	BE/OBJ NO: []	NPIC NO : - 23-F3	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1

THIS ANALYSIS OF 69 COMMUNICATION SATELLITE (COMSAT) FACILITIES IS DIVIDED INTO 3 PARTS. PART I CONSIDERS THE SRF-TYPE COMSAT FACILITIES. PART II CONSIDERS THE COMSAT FACILITIES WHICH MAY BE MILITARY RELATED. PART III CONSIDERS THE ANTENNAS AT MULTIPLE ANTENNA SITES (INCLUDING THE ESV FACILITIES) WHICH ARE OR HAVE THE POTENTIAL OF BEING COMSAT RELATED. FOR THE PURPOSES OF CONTINUITY, PERTINENT PORTIONS OF PAR 73-679 HAVE BEEN INCORPORATED INTO THIS REPORT.*

AF PAR 555-78 22 MAR 78 [] SEC CLASS: 13 MSN: 11P

ACCN: 5083884 25X1

CHIUMENGCHIN SSM FIELD POSITION

WAC NO : 0385	BE/OBJ NO: []	CH 344809N 1124025E
IDHS CODE: []	EPF CAT : 40	NPIC NO : - 17-A1
		COMIREX NO: []

25X1
225X1

THIS REPORT PROVIDES A PHOTO ANALYSIS UPDATE OF CHIU-MENG-CHIN SSM FIELD POSITION. IT INCLUDES A DESCRIPTION AND CHRONOLOGY OF NEW CONSTRUCTION ACTIVITY AND IDENTIFIES NEW MISSILE RELATED ACTIVITY AND EQUIPMENT.*

25X1

1627
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 547-78 30 MAR 78 SEC CLASS: 13 MSN: 18P ACCN: S083R67 25X1

KLIMOVSK AMMUNITION PROD MACHINERY DESIGN BUR UR 552130N 0373220E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35G COMIREX NO:

25X1)
25X1

THIS REPORT, WITH DRAWING 78E6506, PROVIDES A TEN YEAR REVIEW AND ANALYSIS OF THE NEWLY IDENTIFIED
KLIMOVSK AMMUNITION PRODUCTION MACHINERY DESIGN BUREAU. A TABULATION LISTING ALL KEYHOLE MISSIONS FROM
JANUARY 1967 TO FEBRUARY 1978 AND CHARTS SHOWING GROWTH IN ROOF COVERAGE AND FLOORSPACE IS INCLUDED.*

AF PAR 548-78 03 APR 78 SEC CLASS: 13 MSN: 3P ACCN: S083R67 25X1

SARY SHAGAN MTC R+D COMPLEX OPTICAL DVC CMPNT UR 455200N 0733100E
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 3A-A

25X1

1628
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X25X1

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

25X1

THIS REPORT, WITH DRAWING 78D3503, SUPPLEMENTS PARS 75-532, 77-662 AND DRAWING 77E6528/1. IT PROVIDES SPECIFIC DETAILS RELATING TO BUILDINGS INTO WHICH OPTICAL DEVICE COMPONENTS WERE INSTALLED AT THE SARY SHAGAN R+D COMPLEX.*

25X1

AF PAR

556-78

07 APR 78

SEC CLASS: 13

MSN:

8P

ACCN: S083892

25X1

1629
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

KIYEV AERODYNAMIC TEST FACILITY

WAC NO : 0233

BE/OBJ NO: [REDACTED]

UR 504450N 0303120E

IDHS CODE: [REDACTED]

EPF CAT : 05G

NPIC NO : - 29-55

COMIREX NO:

25X1
25X1

THIS REPORT, WITH DRAWING 78D6509, PROVIDES DETAILS OF THE SLED TRACKS, A CHRONOLOGY OF CONSTRUCTION EVENTS, INFORMATION ON UTILITY SERVICE, AND A DESCRIPTION OF TEST EQUIPMENT AT THE KIEV AERODYNAMIC TEST FACILITY. A TABULATED LIST OF SQUARE METERS OF ROOF COVERAGE AND FLOORSPACE IS INCLUDED.*

25X1

1630
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 567-77 07 JUN 77 SEC CLASS: 13 MSN: 32P ACCN: 50838925X1

SPACE, R+D FACILITIES ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
AIRCRAFT, R+D/PROD FACILS ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05G COMIREX NO:
MISSILES, R+D/PROD FACILS ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

THIS REPORT UPDATES PAR 77-508 AND PROVIDES A CHRONOLOGICAL CUMULATIVE LISTING (IN METERS) OF ROOF
COVERAGE AND FLOORSPACE OF SELECTED USSR AEROSPACE RESEARCH INSTITUTES, AIRCRAFT DESIGN/DEVELOPMENT
FACILITIES, AIRCRAFT ENGINE DESIGN/DEVELOPMENT FACILITIES, MISSILE DESIGN/DEVELOPMENT FACILITIES, LIQUID
PROPULSION RESEARCH/DEVELOPMENT/TEST FACILITIES, SOLID MOTOR RESEARCH/DEVELOPMENT PRODUCTION FACILITIES,
AERODYNAMIC SYSTEM DEVELOPMENT TEST FACILITIES, MISSILE FLIGHT TEST FACILITIES

25X1

25X1

25X1

1632
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

VERKHNIY BASKUNCHAK MISSILE TRACKING FACILITY

WAC NO : 0235

BE/OBJ NO: [REDACTED]

UR 481129N 0464131E

IDHS CODE: [REDACTED]

EPF CAT : 25C

NPIC NO : 48

COMIREX NO: [REDACTED]

25X1
25X1

THIS REPORT UPDATES PAR 75-553.*

25X1

1633
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

AKHTUBINSK ORDNANCE TEST AREA 2 TURGAY UR 482220N 0465830E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 18-F
IDHS CODE: EPF CAT : 356 COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 75-591, 77-540 AND 78-573.*

AF ENDR D6527-1-73 22 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839025X1

RAMENSKOYE FLIGHT TEST CENTER AREA 4 UR 553412N 0380728E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D3
IDHS CODE: EPF CAT : 056 COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-568.*

AF ENDR C6505-2-76 02 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839125X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 51 UR 554700N 0373230E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-T4
IDHS CODE: EPF CAT : 056 COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 77-597, 75-530 AND 78-578.*

AF ENDR E6506-78 01 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839125X1

KLIMOVSK AMMUNITION PROD MACHINERY DESIGN BUR UR 552130N 0373220E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 356 COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-547.*

AF ENDR C6502-78 24 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839125X1

KRASNOARMEYSK FRAGMENTATION/MUN TEST AREA UR 561200N 0381700E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 55-B
IDHS CODE: EPF CAT : 356 COMIREX NO:

1636
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

THIS DRAWING SUPPLEMENTS PAR 78-538.*

AF ENDR C6507-78 28 FEB 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S083916^{25X1}

MISSILES, ICBM TYPE 3F SITE NEW-START RECOG

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-537.*

AF ENDR C3506-78 10 MAR 78 [] SEC CLASS: 14 MSN: [] 1P ACCN: S083917^{25X1}

SPACE, SALYUT-6 SPACE STATION

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40H

COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-562.*

AF ENDR D6511-2-75 27 FEB 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S083918^{25X1}

SARY SHAGAN MTC R+D COMPLEX BLDG/CONDUIT U/I

UR 455200N 0733100E

WAC NO : 0245

BE/OBJ NO:

NPIC NO : - 38-A

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 77-662, 75-532, AND 78-548. IT IS UPDATED BY DRAWING 77E 6528.*

AF ENDR D6503-78 28 MAR 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S083919^{25X1}

KRASNOARMEYSK FRAGMENTATION/MUN TEST AREA

UR 561200N 0381700E

WAC NO : 0154

BE/OBJ NO:

NPIC NO : - 55-B

IDHS CODE:

EPF CAT : 35G

COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-539.*

AF ENDR D3503-78 23 FEB 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S083920^{25X1}

SARY SHAGAN MTC R+D COMPLEX OPTICAL DVC CMPNT

UR 455200N 0733100E

WAC NO : 0245

BE/OBJ NO:

NPIC NO : - 38-A

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-548.*

1637

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF ENDR E6528-1-77 27 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0839225X1

SARY SHAGAN MTC R+D CPLX LINEAR TEST FAC SUSP UR 455200N 0733100E
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 38-A
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 75-532, 77-662, AND 78-548. IT UPDATES DRAWING 75D6511.*

AF ENDR D6513-4-73 24 FEB 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0839225X1

HSIAN AVIATION INSTITUTE WIND TUNNEL CH 341451N 1085425E
WAC NO : 0384 BE/OBJ NO: [] NPIC NO : - 3-D1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []
PEICHING GUIDED MISSILE DPC WIND TUNNEL CH 394849N 1160805E
WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 50-J1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
PEICHING MECHANICS INSTITUTE WIND TUNNEL CH 395901N 1161915E
WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 50-N1
IDHS CODE: [] EPF CAT : 65A COMIREX NO: []
SHENYANG AIRFRAME PLANT 112 WIND TUNNEL CH 415208N 1232600E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 55-0
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []
WUHSI NAVAL RESEARCH FACILITY WIND TUNNEL CH 312852N 1201503E
WAC NO : 0402 BE/OBJ NO: [] NPIC NO : - 41-B
IDHS CODE: [] EPF CAT : 75F COMIREX NO: []25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

THIS DRAWING SUPPLEMENTS PARS 73-570, 74-541, 77-512, AND 78-541.*

AF ENDR D6502-4-70 24 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0839225X1

PEICHING ELECTRONICS RSCH INST ACADY SCIENCE CH 395901N 1161915E
WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 51-B
IDHS CODE: [] EPF CAT : 25E COMIREX NO: []25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 70-534, 75-793, AND 78-541.*

AF ENDR D6504-78 17 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0839225X1

PEICHING MECHANICS INSTITUTE WIND TUNNEL CH 395901N 1161915E
WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 50-N1
IDHS CODE: [] EPF CAT : 65A COMIREX NO: []25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-541.*

25X1

1638
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR B4509-78 15 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S083926 25X1

TYURATAM MTC ESV TRACKING FAC DUAL-DOMED BLDG
WAC NO : 0246 BE/OBJ NO: UR 455426N 0632015E
IDHS CODE: EPF CAT : 25C NPIC NO : - 6-04
COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-561.*

AF ENDR E1005-78 24 MAR 78 SEC CLASS: 00B MSN: 1P ACCN: S083927

AIRCRAFT, CLOBBBER A YAK-42 SWEPT WING VERSION
WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 05D NPIC NO :
COMIREX NO:

AF ENDR B1503-1-75 08 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S083928 25X1

MISSILES, CSS-2
WAC NO : BE/OBJ NO: CH
IDHS CODE: EPF CAT : 40B NPIC NO :
COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 73-617, 75-555, 76-549, AND 78-560.*

AF ENDR E1509-1-77 17 FEB 78 SEC CLASS: 13 MSN: 1P ACCN: S083929 25X1

1639
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS, ICBM TYPE 3X LCF SITE PLANS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 77-573 AND 78-540.*

AF ENDR D6523-1-77 02 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839325X1
PERVOMAYSK SSM COMPLEX UR 481224N 0305416E
WAC NO : 0233 BE/OBJ NO: NPIC NO : - 44-C1 25X1
IDHS CODE: EPF CAT : 40 COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PARS 77-644, 78-540, AND 78-551.*

AF ENDR D6522-1-77 02 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: S0839325X1
DERAZHNYA SSM COMPLEX UR 491254N 0270818E
WAC NO : 0233 BE/OBJ NO: NPIC NO : - 113-A1 25X1
IDHS CODE: EPF CAT : 40 COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PARS 77-644, 78-540, AND 78-551.*

25X1

DIA IIM 561-58314-78 22 MAY 78 SEC CLASS: 14 MSN: 4P ACCN: S0839325X1
FRUNZE AVTOKOLONNA 2901 UR 425145N 0743109E
WAC NO : 0328 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 85A COMIREX NO: 25X1

AF ENDR E1003-78 08 MAR 78 SEC CLASS: 07 MSN: 1P ACCN: S083934
AIRCRAFT, FORGER B UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING IS SUPPLEMENTED BY DRAWING 77E1001/1.*

1640
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF ENDR E1001-1-77 08 MAR 78

SEC CLASS: 07 MSN:

1P

ACCN: S083935

AIRCRAFT, FORGER A YAK-36

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05D

UR

NPIC NO :

COMIREX NO:

25X1

THIS DRAWING SUPERCEDES DRAWING 77E1001.*

25X1

AF ENDR E1516-2-76 14 DEC 77

SEC CLASS: 13 MSN:

1P

ACCN: S083937

MISSILES, ICBM TYPE 3C/3F SILO CONVERSION

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40A

UR

NPIC NO :

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 76-648.*

25X1

1641

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA11-0013-77 MAY 78 SEC CLASS: 14B MSN: 5P ACCN: 508394

VOLGOGRAD TRACTOR + ARMORED VEHICLE PLANT UR 484804N 0443628E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 16-J
IDHS CODE: EPF CAT : 30C COMIREX NO:
VOLGOGRAD TRACTOR + ARMORED VEHICLE PLANT UR 484804N 0443628E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 16-J
IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1
25X1

25X1
25X1

THIS REPORT CONTAINS DETAILS OF CHANGES TO VOLGOGRAD TRACTOR AND ARMORED VEHICLE PLANT COVERING THE

25X1

THE PLANT IS PRIMARILY ENGAGED IN LARGE SCALE MANUFACTURE AND ASSEMBLY OF AGRICULTURAL TRACTORS.
SIGNIFICANT CHANGES WITHIN THE PLANT INCLUDE CONSTRUCTION OR COMPLETION OF 27 BUILDINGS AND ADDITIONS TO 8
EXISTING BUILDINGS, PROVIDING 49,884 SQUARE METERS OF ADDITIONAL ROOF COVER AND INCREASING THE PLANT'S
TOTAL ROOF COVER TO 568,036 SQUARE METERS.

25X1

NPIC MCS MCS002-78 MAY 78 SEC CLASS: 14 MSN: 35P ACCN: 508394

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 60A COMIREX NO:

25X1

25X1

25X1

1642
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-58357-78 23 MAY 78 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 2P ACCN: S083946 25X1

LENINGRAD AIRCRAFT ENGINE PLANT 117

WAC NO : 0153

BE/OBJ NO: [REDACTED]

UR 595851N 0302023E

NPIC NO : - 36-H

IDHS CODE: [REDACTED]

EPF CAT : 05G

COMIREX NO: [REDACTED]

25X1

25X1

DIA IIM 5B1-58325-78 23 MAY 78 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 5P ACCN: S083947 25X1

1643

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WROCLAW ARMY BARRACKS 2		PL 510828N 0170423E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 15-B2	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
WROCLAW ARMY BARRACKS 203 KARLOWICE		PL 510834N 0170406E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 15-B	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
WROCLAW ARMY BARRACKS 22		PL 510828N 0165125E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 14-A4	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
WROCLAW ARMY BARRACKS 8		PL 510707N 0170124E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 15-G6	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
WROCLAW ARMY BARRACKS 19		PL 510408N 0170015E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 15-D1	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
WROCLAW ARMY BARRACKS 7 ROSENTHAL		PL 510853N 0170109E	
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 15-E	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1

25X1
25X1

1644
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO

15 MAY 78

SEC CLASS: 13 MSN:

2P

ACCN: S083951

25X1

HAIYEN/KOERHMU RAIL LINE TRACK NEW

WAC NO : 0332

BE/OBJ NO:

CH 371115N 1002430E

IDHS CODE:

EPF CAT : 85B

NPIC NO : - 56

KOERHMU/HAIYEN RAIL LINE TRACK NEW

WAC NO : 0332

BE/OBJ NO:

CH 3625 N 09453 E

IDHS CODE:

EPF CAT : 85B

NPIC NO :
COMIREX NO:

25X1

25X1

25X1

25X1

NPIC MEMO

13 APR 78

SEC CLASS: 25 MSN:

5P

ACCN: S083954

25X1

BUENOS AIRES COMMUNICATIONS FACILITIES

WAC NO : 0429

BE/OBJ NO:

AR 3436 S 05827 W

IDHS CODE:

EPF CAT : 25D

NPIC NO :
COMIREX NO:

DIA STDY DDB1311-001-78

APR 78

SEC CLASS: 20 MSN:

16P

ACCN: S083955

25X1

AIRCRAFT: LRA ARCTIC WINTER TRAINING

WAC NO :

BE/OBJ NO:

UR
NPIC NO :

1645

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 05 COMIREX NO:

ANALYSIS OF SOVIET LONG RANGE AVIATION (LRA) FLIGHT OPERATIONS DURING THE 1977 WINTER ARCTIC TRAINING SEASON HAS SHOWN THAT THERE HAS BEEN A NOTICEABLE DECREASE IN ACTIVITY. THE TREND TOWARD REDUCED EMPHASIS ON ARCTIC-RELATED TRAINING FOR BISON IS MOST SIGNIFICANT, ALTHOUGH BEAR TRAINING HAS ALSO DECREASED SINCE 1976. ARCTIC ACTIVITY FOR BISON HAS DROPPED TO THE LOWEST LEVEL EVER RECORDED.

ALMOST ALL OF 1977'S BADGER ARCTIC-RELATED OPERATIONS INVOLVED DISPERSAL/MOBILITY-ASSOCIATED TRAINING. FOR THE FIRST TIME SINCE 1974, BLINDER PARTICIPATED IN THE SEASONAL ARCTIC EXERCISE, ALTHOUGH THEY DID NOT DEPLOY TO THE ARCTIC. BACKFIRE HAS BEEN IN OPERATIONAL SERVICE SINCE 1974, BUT IT HAS NOT AS YET BEEN DETECTED CONDUCTING FLIGHT ACTIVITY OVER THE ARCTIC.

DIA IAPPR 104-78 25 APR 78 SEC CLASS: 21M MSN: 12P ACCN: S083956
MISSILES, NAVAL CRUISE MISSILE DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:

INFRARED-CRUISE MISSILE ACTIVITY IN THE POHAI GULF AREA IN 1977 PROMPTED THE RECENT REEXAMINATION OF CHINA'S NAVAL CRUISE MISSILE WEAPONS SYSTEMS. A MAJOR UNRESOLVED QUESTION HAD BEEN THE IDENTIFICATION OF THE SURFACE-TO-SURFACE SYSTEM CARRIED BY THE LUTA-CLASS DESTROYERS. FROM BOTH SIGINT AND PHOTINT, DIA CAN NOW CONFIRM THAT A NAVAL VERSION OF THE CSSC-2 COASTAL-DEFENSE MISSILE WAS DEPLOYED ON THE LUTAS BEGINNING IN 1973. MOREOVER, THE PRC HAS ALSO DEVELOPED AN INFRARED VERSION OF THIS MISSILE SYSTEM, WHICH WAS DEPLOYED IN 1976.

ARMY PIM PIM033-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S083956
TUAN RADIO RELAY STATION CH 235640N 1080452E
WAC NO : 0615 BE/OBJ NO: NPIC NO : - 24
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION OF TU-AN RADREL STATION, PEOPLES REPUBLIC OF CHINA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL STATION. THE PHOTO DISPLAYS THE ANTENNA ENVIRONMENTAL SHELTER OPENING ORIENTATIONS, CONTROL BUILDING AND THE CONTROL SUPPORT AREA.

ARMY PIM PIM040-78 31 MAR 78 SEC CLASS: 14A MSN: 4P ACCN: S083956
HUNG-TANG RADIO RELAY STATION BUNKERED CH 255518N 1130010E
WAC NO : 0498 BE/OBJ NO: NPIC NO : - 70
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF HUNG-TANG RADREL STA/BNK, PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE

1646
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE, AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF THE STATION, AND GEOGRAPHIC LOCATION.

25X1

AF PAR 3-78 25 JAN 78

SEC CLASS: 07

MSN:

2P

ACCN: S083960

MISSILES, AA-7 WEAPON SYSTEM EVALUATION MSL

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40J

COMIREX NO:

MISSILES, AA-8 WEAPON SYSTEM EVALUATION MSL

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40J

COMIREX NO:

THIS REPORT PROVIDES A PHOTO ANALYSIS OF THE APEX (AA-7) AND APHID (AA-8) WEAPON SYSTEM EVALUATION MISSILES (WSEM) OBSERVED ON FLOGGER R'S WITH FUSELAGE NUMBERS 49 AND 08. ANALYSIS INCLUDE A DIMENSIONAL AND CONFIGURATIONAL COMPARISON OF BOTH WSEMS WITH THE CURRENT FTD DRAWINGS OF THE APEX AND APHID ASMS, DRAWINGS 76B1016 AND 77B1010.*

AF ENDR E1004-78 17 MAR 78

SEC CLASS: 05P

MSN:

1P

ACCN: S083961

ELECTRONICS, PAT HAND RADAR

UR

1647

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1

THIS DRAWING SUPERCEDES DRAWING 70E1045.*

AF ENDR C1008-78 27 APR 78 SEC CLASS: 07 MSN: 1P ACCN: S083962

MISSILES, AS-6

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 40J NPIC NO :
COMIREX NO:

25X1

THIS DRAWING SUPERCEDES DRAWING 76B1015.*

AF ENDR D1007-78 04 APR 78 SEC CLASS: 07 MSN: 1P ACCN: S083963

ELECTRONICS, 4-DISH ANTENNA NAVAL ASSOCIATED

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 25I NPIC NO :
COMIREX NO:

AF ENDR E1009-78 11 MAY 78 SEC CLASS: 00B MSN: 1P ACCN: S083964

AIRCRAFT, CLINE A AN-32

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 05D NPIC NO :
COMIREX NO:

AF ENDR C3003-78 03 MAY 78 SEC CLASS: 07 MSN: 1P ACCN: S083965

AIRCRAFT, BADGER G TU-16 RADOME NEW

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 05D NPIC NO :
COMIREX NO:

25X1

AF ENDR D3002-78 20 MAR 78 SEC CLASS: 00 MSN: 1P ACCN: S083966

SPACE, METEOR-2 METEOROLOGICAL SATELLITE

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 40H NPIC NO :
COMIREX NO:

AF ENDR B1006-78 04 APR 78 SEC CLASS: 07 MSN: 1P ACCN: S083967

AIRCRAFT, FITTER 5-METER FUEL TANK

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 05D NPIC NO :
COMIREX NO:

25X1

1648
TOP SECRET CHESS RUFF

Sanitized Copy Approved for Release 2010/03/16 : CIA-RDP79T01184A000100040001-5

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TOP SECRET CHESS RUFF



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SAC STDY GOALKEEPER12-77 30 DEC 77 SEC CLASS: 05BX MSN: 49P ACCN: S083982

PROJECT GOALKEEPER XII		
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15G	COMIREX NO:
SEMIPALATINSK AIR DEFENSE ZONE AREA STUDY		UR 5022 N 08013 E
WAC NO : 0239	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
NOVOSIBIRSK AIR DEFENSE ZONE AREA STUDY		UR 5503 N 08323 E
WAC NO : 0162	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:
IRKUTSK AIR DEFENSE ZONE AREA STUDY		UR 5216 N 10422 E
WAC NO : 0200	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:



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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

THIS STUDY PRESENTS AN ASSESSMENT OF THE DEPLOYMENT AND DENSITY OF THE AIR DEFENSE FORCES WHICH WOULD BE ENCOUNTERED IN THE SEMIPALATINSK, NOVOSIBIRSK, AND IRKUTSK AIR DEFENSE ZONES IN THE TRANS-SIBERIAN STRATEGIC AREA.*

DIA STDY DUB1720-007-78 APR 78 SEC CLASS: 25 MSN: 39P ACCN: S083983 25X1

ELECTRONICS, COMMAND CNTRL SIGNAL UNITS SOV	HU
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D
ELECTRONICS, COMMAND CNTRL SIGNAL UNITS SOV	CZ
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D
ELECTRONICS, COMMAND CNTRL SIGNAL UNITS SOV	PL
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D

NPIC NO :
COMIREX NO:
NPIC NO :
COMIREX NO:
NPIC NO :
COMIREX NO:

25X1

ELECTRONICS, COMMAND CNTRL SIGNAL UNITS SOV	RO
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D
ELECTRONICS, COMMAND CNTRL SIGNAL UNITS SOV	BU
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D
ELECTRONICS, COMMAND CNTRL COMMO SIGNAL UNITS	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25D

NPIC NO :
COMIREX NO:
NPIC NO :
COMIREX NO:
NPIC NO :
COMIREX NO:

*THIS STUDY PROVIDES AN ANALYSIS OF SOVIET/WARSAW PACT MOBILE SIGNAL UNITS THAT SUPPORT FRONT-LEVEL OPERATIONS. OVER THE LAST SEVERAL YEARS, NEWLY ACQUIRED INTELLIGENCE HAS INCREASED DIA'S KNOWLEDGE OF TYPES OF EQUIPMENT, MISSIONS, ORGANIZATION, AND LOCATIONS OF UNITS THAT CONSTITUTE THE SOVIET/WARSAW PACT MOBILE SIGNAL INVENTORY. THIS STUDY EMPHASIZES THE CONTRIBUTION OF MOBILE SIGNAL UNITS TO THE OVERALL SUCCESS OF OFFENSIVE AND DEFENSIVE OPERATIONS. IN ADDITION, THE INTERACTION OF MOBILE SIGNAL UNITS WITH THE HARDENED FRONT-LEVEL COMMAND, CONTROL, AND COMMUNICATIONS SYSTEM IS DESCRIBED.

SAC STDY GOALKEEPER14-78 15 JAN 78 SEC CLASS: 05BX MSN: 27P ACCN: S083984

PROJECT GOALKEEPER XIV

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15G	COMIREX NO:
ANADYR AIR DEFENSE ZONE AREA	STUDY	UR 6446 N 17737 E
WAC NO : 0075	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 15F	COMIREX NO:

1655

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NORILSK AIR DEFENSE ZONE AREA STUDY UR 6921 N 08821 E
 WAC NO : 0048 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 15F COMIREX NO:

THIS IS THE TENTH AND FINAL REPORT IN THE SERIES OF GOALKEEPER STUDIES DONE UNDER THE STRATEGIC AREA CONCEPT. THE OBJECTIVE OF PROJECT GOALKEEPER IS TO PROVIDE A DEFINITIVE, CONCISE ASSESSMENT OF AIR DEFENSES WITHIN A PARTICULAR GEOGRAPHIC AREA. THIS REPORT EVALUATES OVERALL DEFENSIVE CAPABILITIES AND SUGGESTS SOME CONSIDERATIONS FOR DEFENSE SUPPRESSION AND ROUTE PLANNING. THE DETAILED ANALYSIS SUPPORTING THESE CONCLUSIONS IS NOT INCLUDED IN THIS REPORT, BUT CAN BE PROVIDED TO SPECIFIC AGENCIES UPON REQUEST. THE INTELLIGENCE CUTOFF DATE IS 15 JAN 78.

DIA STDY DST1830S-136-78 07 APR 78 SEC CLASS: 25 MSN: 39P ACCN: S0839825X1

SPACE, AEROSPACE R+D MANAGEMENT SYSTEM CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40H COMIREX NO:

THE PURPOSE OF THIS STUDY IS TO PROVIDE A CONCISE DESCRIPTION OF HOW THE PEOPLE'S REPUBLIC OF CHINA (PRC) HAS MANAGED AND CONTINUES TO MANAGE ITS SPACE RESEARCH AND DEVELOPMENT (R+D) PROGRAM. THE SPACE PROGRAM IS SELECTED TO SERVE AS A MODEL OF THE MILITARY PRODUCT ACQUISITION AND DEVELOPMENT PROCESS, FOR IT IS EXPECTED THAT THE PROCESSES EVIDENCED IN SPACE R+D WILL BE, IN LARGE PART, REPEATED IN OTHER MILITARY HARDWARE PROGRAMS. THIS STUDY, THEREFORE, IS INTENDED AS AN AID IN UNDERSTANDING THE CHINESE APPROACH TO AEROSPACE R+D MANAGEMENT AND PREDICTING COURSES OF ACTION IN ONGOING AND FUTURE WEAPONS DEVELOPMENT PROGRAMS.

THIS STUDY DOES NOT TRACE THE DEVELOPMENT OF THE BALLISTIC MISSILE PROGRAM NOR DOES IT PROVIDE DETAILED ASSESSMENTS OF SUPPORT FACILITY OR SYSTEM PERFORMANCE CHARACTERISTICS. REFERENCES PROVIDING MORE DETAILED INFORMATION ARE CITED WHERE APPROPRIATE.

SAC DSIIB BSF22-3001-78 APR 78 SEC CLASS: 13 MSN: 19P ACCN: S0839825X1

AIRFIELDS, BACKFIRE B DPL CHARACTERISTICS UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05A COMIREX NO:

PRIOR TO ALL OPERATIONAL BACKFIRE DEPLOYMENTS THERE HAS BEEN A SIMILAR UNIQUE SEQUENCE OF EVENTS. THESE EVENTS CAN PROVIDE A SERIES OF IMAGERY DERIVED CHARACTERISTICS TO ASSIST THE IMAGERY INTERPRETER IN DETECTING FUTURE BACKFIRE DEPLOYMENTS IN ADVANCE OF ACTUAL AIRCRAFT DELIVERIES.

DIA STDY DST1053S-309-78 MAR 78 SEC CLASS: 25F MSN: 23P ACCN: S0839825X1

MISSILES, ATBM SYSTEM NEW UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40D COMIREX NO:

1656
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NAVY REPT 01 MAY 78 SEC CLASS: 24 MSN: 13P ACCN: S083989 25X1

SHIPS, KASHIN CLASS DDG SA-X-11 NAV VAR ARMED UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75D COMIREX NO:
 MISSILES, SA-X-11 NAV VAR POSS KASHIN DDG MTD UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40G COMIREX NO:

25X1

A NEW WEAPONS SYSTEM HAS BEEN INSTALLED IN PLACE OF THE SA-N-1 SYSTEM ON THE AFT END OF THE KASHIN PROVORNNY. THE WEAPON SYSTEM IS BELIEVED TO BE A NEW NAVAL SURFACE-TO-AIR MISSILE, AN ADAPTION OF THE SA-X-11. THE SYSTEM CONSISTS OF A SINGLE ARM LAUNCHER AND AT LEAST TWO TARGET ENGAGEMENT RADARS.

THE TENTATIVE IDENTIFICATION OF THIS NEW NAVAL SAM IS BASED UPON COMPONENT SIMILARITY AND COMPATIBILITY WITH THE SA-X-11 MISSILE SYSTEM CURRENTLY IN R+D AT EMBA MISSILE TEST CENTER.

OTHER, CIRCUMSTANTIAL EVIDENCE SUPPORTING THIS PRELIMINARY FINDING IS IN THE FORM OF SIMILARITY IN TELEMETRY AND PHOTOGRAPHIC COVERAGE PLACING PROVORNNY IN SAM TEST AREAS DURING TELEMETRY INTERCEPTS.

IF THE PRELIMINARY FINDINGS ARE CORRECT, THE NEW NAVAL SAM, A VARIANT OF THE SA-X-11, WILL PROVIDE A REPLACEMENT FOR THE SA-N-1 MISSILE SYSTEM AND WILL COMPLIMENT THE SA-N-3 AND SA-N-4. SUCH A SYSTEM MAY BE INTENDED FOR INSTALLATION ON THE NEW CRUISER CLASS SHIP NOW UNDER CONSTRUCTION AT LENINGRAD-ZHDANOV, THE 190A.

DIA NBRG NDA06-5118-77 19 MAY 78 SEC CLASS: 05G MSN: 1P ACCN: S083990

BECHEVINSKAYA NAVAL FACILITIES APPROACHES UR 5315 N 15946 E
 WAC NO : 0194 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75 COMIREX NO:

25X1
25X11657
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IAPPR 114-78 09 MAY 78 SEC CLASS: 24 MSN: 11P ACCN: S0839925X1

ELECTRONICS, EW RADAR SYSTEMS

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

SINCE ABOUT 1970, CHINA HAS BEEN DEVELOPING A BALLISTIC-MISSILE EARLY-WARNING SYSTEM (BMEWS). IT HAS TWO MAIN ELEMENTS, OF WHICH ONE IS A BMEWS NETWORK CONSISTING OF AT LEAST EIGHT SITES WITH LONG-RANGE RADARS THAT REPORT TO AND ARE CONTROLLED BY A HEADQUARTERS NEAR PEKING. ALL THE SITES ARE IN THE NORTHERN HALF OF THE COUNTRY AND PROVIDE COVERAGE OF ALL SOVIET LAND-BASED MISSILE INSTALLATIONS AS WELL AS SLBM LAUNCHES FROM THE NORTHERN SEA OF JAPAN. SINCE 1976, FIVE OF THESE HAVE ENGAGED IN REGULAR BUT UNSOPHISTICATED SIMULATED TRACKING OF SOVIET MISSILES TWICE EACH MONTH. THE RADARS APPEAR INACTIVE MOST OF THE TIME, INDICATING THE SYSTEM IS NOT OPERATIONAL DESPITE A POSSIBLE LIMITED OPERATIONAL CAPABILITY.

25X1

NAVY DSIIR RPP06-8001-78 FEB 78 SEC CLASS: 05 MSN: 122P ACCN: S083995

NAVAL, INSTALLATIONS

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75B COMIREX NO:

THIS PUBLICATION HAS BEEN PRIMARILY DERIVED FROM SATELLITE IMAGERY AND PHOTOGRAPHIC ANALYSIS AND DESCRIBES THE DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA NAVAL OPERATING BASES, FACILITIES, AND SHIPYARDS ENGAGED IN NAVAL CONSTRUCTION. THE PRIMARY OBJECTIVE IS TO PROVIDE A CONCISE YET COMPREHENSIVE OVERVIEW OF SUCH INSTALLATIONS. MEASUREMENTS ARE PROVIDED ON EACH INSTALLATION TO FACILITATE LOCAL SCALING. THE DESCRIPTION OF EACH INSTALLATION CONTAINS TEXTUAL INFORMATION IDENTIFYING THE PHYSICAL COMPONENTS, PRIMARY FUNCTIONS, AND VARIOUS TYPES OF NAVAL COMBATANTS GENERALLY PRESENT AT THE FACILITY. INSTALLATIONS ARE DEPICTED FROM EITHER THE LATEST AND BEST QUALITY OR MOST REPRESENTATIVE IMAGERY AVAILABLE. ALL INFORMATION AND IMAGERY WAS CURRENT AS OF OCTOBER 1977. INSTALLATION OUTLINES PROVIDED HEREIN ARE FICPAC ANALYST

25X1

1658
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

DERIVED. FOR PURPOSES OF THIS PUBLICATION, NAVAL UNITS ARE DEFINED AS ALL COMBATANTS AND AUXILIARIES OF MILITARY INTEREST.

DIA IAPPR 128-78 16 MAY 78 SEC CLASS: 25 Y MSN: 8P ACCN: S083996 25X1
 INDUSTRY, OIL EXPLORATION DEVELOPMENTS KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 30A COMIREX NO:

NORTH KOREA'S INTEREST IN DEVELOPING POTENTIAL OFFSHORE OIL RESERVES BEGAN PRIOR TO OCTOBER 1976, WHEN AN OIL EXPLORATION DRILLING BARGE CONSTRUCTED AT NAMPO WAS LAUNCHED. RECENTLY, PYONGYANG STEPPED UP EFFORTS TO OBTAIN FOREIGN EXPLORATION EQUIPMENT AND TECHNICAL ASSISTANCE. SEVERAL FACTORS HAVE UNDOUBTEDLY ADDED IMPETUS TO THE COUNTRY'S SEARCH: CONTINUING FISCAL AND ECONOMIC PROBLEMS, OVER DEPENDENCE ON CHINA AND THE USSR FOR OIL, DIFFICULTIES IN SECURING ADEQUATE ALTERNATE POL SOURCES, AND INCREASING DEMANDS FOR PETROLEUM IN THE CIVILIAN SECTOR TO SUPPORT THE NEW SEVEN-YEAR ECONOMIC PLAN. IF DISCOVERED, A PROPERLY DEVELOPED AND MANAGED SOURCE COULD EASE THESE PROBLEMS CONSIDERABLY.

DIA NBRG NDA06-5119-77 19 MAY 78 SEC CLASS: 05G MSN: 1P ACCN: S083997 25X1
 BECHEVINSKAYA SUBMARINE BASE UR 531543N 1594627E
 WAC NO : 0194 BE/OBJ NO: NPIC NO : - 23-B
 IDHS CODE: EPF CAT : 75A COMIREX NO: 25X1

DIA STDY DST1830S-396-77 SEP 77 SEC CLASS: 25 X MSN: 333P ACCN: S083998 25X1
 NAVAL, R+D RESOURCES UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75F COMIREX NO:

THIS STUDY IS AN ASSESSMENT OF THE RESEARCH AND DEVELOPMENT CAPABILITIES OF SELECTED SCIENTIFIC RESEARCH INSTITUTES AND DESIGN ORGANIZATIONS IN THE SOVIET UNION WITH REGARD TO NAVAL WEAPONS SYSTEMS. IT ASSESSES THE ROLES AND ACTIVITIES OF THE SOVIET ALL UNION MINISTRY OF SHIPBUILDING INDUSTRY, AND THE SOVIET NAVAL WEAPONS SYSTEM ACQUISITION PROCESS, AS WELL AS THE ROLES AND ACTIVITIES OF CERTAIN SCIENTIFIC RESEARCH INSTITUTES AND DESIGN BUREAUS.

THE CUTOFF DATE FOR THE INFORMATION INCLUDED IN THIS STUDY IS 29 JULY 1977.

DIA STDY DST1070S-102-78 21 APR 78 SEC CLASS: 25 MSN: 205P ACCN: S083999 25X1
 PLESETSK MTC UR 625746N 0402346E
 WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27
 IDHS CODE: EPF CAT : 40E COMIREX NO: 25X1

THIS STUDY PROVIDES A COMPREHENSIVE ASSESSMENT OF THE PLESETSK MISSILE AND SPACE RANGE. IT EXAMINES THE

1659
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

HISTORY AND CURRENT OPERATIONS OF THIS RANGE AS WELL AS PROSPECTS FOR ITS FUTURE IN THE SOVIET MISSILE AND SPACE EFFORT.

NAVY STDY 16 MAR 78 SEC CLASS: 13 MSN: 28P ACCN: S08400, 25X1

CIENFUEGOS NAVAL ACTIVITY/CONSTRUCTION CU 2209 N 08027 W
WAC NO : 0586 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

THE TEXTUAL AND PHOTOGRAPHIC INFORMATION IN THIS REPORT COVERS NAVAL ACTIVITY AND CONSTRUCTION IN THE CIENFUEGOS, CUBA, AREA FROM 1970 TO THE PRESENT. ANALYST COMMENTS ADDRESS POTENTIAL DEVELOPMENT OF SOVIET NAVAL FACILITIES IN TWO BASIC SUPPORT SCENARIOS: SUPPORT FOR CONVENTIONAL SURFACE UNITS, AND SUPPORT FOR CONVENTIONAL SURFACE AND SUBMARINE UNITS. THE POSSIBLE INTRODUCTION OF NUCLEAR POWER PLANTS IN THE CIENFUEGOS AREA IS ALSO ADDRESSED.

CIA BIIR RCS13-0007-78 MAY 78 SEC CLASS: 13 MSN: 9P ACCN: S08400, 25X1

TOUTANG IRON + STEEL PLANT CH 263530N 1045300E
WAC NO : 0496 BE/OBJ NO: NPIC NO : 67-A
IDHS CODE: EPF CAT : 30C COMIREX NO: 25X1
KUEIYANG IRON + STEEL PLANT CH 263320N 1064358E
WAC NO : 0496 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 30C COMIREX NO: 25X1
INDUSTRY, IRON + STEEL PLANTS KUEICHOUSHENG CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30C COMIREX NO: 25X1

THERE ARE TWO PLANTS IN KWEICHOW PROVINCE ENGAGED IN THE PRODUCTION OF IRON AND STEEL. ONE IS A PIG IRON PLANT AND ONE IS AN IRON AND STEEL PLANT.

THESE PLANTS HAVE A TOTAL OF ONE LARGE AND TWO SMALL BLAST FURNACES, WHICH ARE CAPABLE OF PRODUCING AN ESTIMATED 1,200 METRIC TONS OF PIG IRON PER DAY. A PROBABLE ELECTRIC FURNACE BUILDING AND A PROBABLE OPEN-HEARTH FURNACE BUILDING ARE IN USE IN THE PROVINCE.

AN AIR SEPARATION PLANT AND AN UNIDENTIFIED BUILDING WERE UNDER CONSTRUCTION AT THE TOU-TANG IRON PLANT. NO CONSTRUCTION ACTIVITY WAS EVIDENT AT THE KUEI-YANG IRON AND STEEL PLANT. BOTH PLANTS APPEARED TO BE OPERATING WHEN LAST SEEN ON PHOTOGRAPHY.

THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES OF THE TWO KWEICHOW PLANTS AND PROVIDES AN ANNOTATED PHOTOGRAPH OF BOTH PLANTS. A MAP SHOWING PLANT LOCATIONS IS ALSO INCLUDED. THE CUTOFF DATES FOR INFORMATION IN THIS REPORT ARE DECEMBER 1975 FOR THE TOU-TANG PLANT AND SEPTEMBER 1977 FOR THE KUEI-YANG PLANT.

25X1

1660
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NAVY BIIR RNG23-5001-78

APR 78

SEC CLASS: 04 MSN:

8P

ACCN: S084009

1661
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SHIPS, ROPUCHA CLASS LST

WAC NO :
IUHS CODE:

BE/OBJ NO: [REDACTED]
EPF CAT : 75D

UR
NPIC NO :
COMIREX NO:

25X1

THIS REPORT PROVIDES AN IMAGERY-DERIVED ANALYSIS OF THE ROPUCHA CLASS TANK LANDING SHIP (LST). IT INCLUDES BASIC DIMENSIONAL CHARACTERISTICS, ARMAMENT AND ELECTRONIC INVENTORIES, A SILHOUETTE, A PROVISIONAL SCALE DRAWING, RECOGNITION PHOTOGRAPHY, ANNOTATED PHOTOGRAPHS OF SHIP'S EQUIPMENT, AND REFERENCE DATA.

THE POLISH-BUILT ROPUCHA IS 113 METERS LONG AND HAS A 14-METER MAXIMUM BEAM. IT RESEMBLES THE SMALLER POLNOCNY LSM, BUT HAS AN ENORMOUS SUPERSTRUCTURE, WHICH IS THE SALIENT FEATURE OF THIS CLASS. MEASUREMENT ACCURACY IS PLUS-OR-MINUS 0.6M + 1 PERCENT OF MEASURED DISTANCE AT 95% CONFIDENCE LEVEL. THE INTELLIGENCE CUTOFF DATE FOR THIS REPORT IS 1 APRIL 1978.

AF PAR 554-78 21 APR 78 [REDACTED] SEC CLASS: 13 MSN: 25P ACCN: 50840125X1

KAZAN AIRFRAME PLANT 60RBUNOV 22

WAC NO : 0165
IUHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 05G

UR 555140N 0490700E
NPIC NO : - 14-G
COMIREX NO: [REDACTED]

25X1

KUYBYSHEV AIRFRAME PLANT LENIN 18 ASBLY BLDG

WAC NO : 0165
IUHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 05G

UR 531300N 0501814E
NPIC NO : - 19-A
COMIREX NO: [REDACTED]

25X1

VORONEZH AIRFRAME PLANT 64 ASSEMBLY BLDG U/C

WAC NO : 0234
IUHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 05G

UR 513819N 0391517E
NPIC NO : - 46-F
COMIREX NO: [REDACTED]

25X1

AIRCRAFT, AIRFRAME PLANTS ASSEMBLY BLDGS COMP

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 05G

UR
NPIC NO :
COMIREX NO:

25X1

THIS REPORT, WITH ASSOCIATED DRAWING 78D6508, SUPERCEDES PAR 73-664, PARAGRAPH 2D OF 74-538, AND PARAGRAPH 2D (4) OF 75-505.

IT PROVIDES A DETAILED ANALYSIS OF A LARGE ASSEMBLY/ENGINEERING BUILDING UNDER CONSTRUCTION AT KAZAN AIRFRAME PLANT 22.

CONTAINED WITHIN THIS ANALYSIS IS A FUNCTIONAL IDENTIFICATION OF EACH SIGNIFICANT BUILDING TOGETHER WITH CONSTRUCTION TIMING AND TOTAL ROOF COVERAGE AND FLOORSPACE FIGURES. IN ADDITION, ANY EXTRAORDINARY FEATURES OF BUILDINGS ARE DISCUSSED. ANNOTATION NUMBERS ARE KEYED TO DRAWING 78D6508.

FOUR OTHER AIRFRAME PLANTS IN THE SOVIET UNION WERE REVIEWED TO ASCERTAIN WHETHER OR NOT THEY CONTAIN NEW ASSEMBLY BUILDINGS SIMILAR TO THE ASSEMBLY/ENGINEERING BUILDING UNDER CONSTRUCTION. THE PLANTS REVIEWED WERE KUYBYSHEV AIRFRAME PLANT LENIN 18, VORONEZH AIRFRAME PLANT 64, TASHKENT AIRFRAME PLANT B CHKALOV 84, AND KIYEV AIRFRAME PLANT 473.*

25X1

1662
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF PAR 565-78 20 APR 78 SEC CLASS: 13 MSN: 21P ACCN: S084013 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 2 SUKHOY UR 553424N 0380819E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D1
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

THIS REPORT, WITH DRAWING 73D6515/1, PROVIDES AN UPDATED ANALYSIS OF THE SUKHOY PORTION OF THE RAMENSKOYE FLIGHT TEST CENTER. IT INCLUDES A CHRONOLOGY OF FACILITY GROWTH EXPRESSED IN TERMS OF ROOF COVERAGE AND FLOORSPACE FOR THE PERIOD FROM JULY 1961 THROUGH FEBRUARY 1978, A DETAILED DESCRIPTION OF ALL SIGNIFICANT BUILDINGS AND NEW CONSTRUCTION/EXPANSION, AND A COUNT OF AIRCRAFT AND COMPONENTS OBSERVED AT THE FACILITY.*

AF PAR 566-78 17 APR 78 SEC CLASS: 13 MSN: 16P ACCN: S084014 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 2 MIKOYAN UR 553424N 0380819E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D1
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

THIS REPORT AND DRAWING 73D6515/1 PROVIDE AN UPDATED ANALYSIS OF THE MIKOYAN PORTION OF THE RAMENSKOYE FLIGHT TEST CENTER. IT INCLUDES A CHRONOLOGY OF FACILITY GROWTH EXPRESSED IN TERMS OF ROOF COVERAGE AND FLOORSPACE FOR THE PERIOD FROM JULY 1961 THROUGH FEBRUARY 1978, A DETAILED DESCRIPTION OF ALL SIGNIFICANT BUILDINGS AND NEW CONSTRUCTION/EXPANSION, AND A COUNT OF AIRCRAFT AND COMPONENTS OBSERVED AT THE FACILITY. INFORMATION IN THIS REPORT SUPERCEDES PAR 73-578. ALSO REFERENCED ARE PAR 77-630 AND DRAWING 73D6511/2.

AF PAR 567-78 17 APR 78 SEC CLASS: 13 MSN: 16P ACCN: S084015 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 2 YAKOLEV UR 553424N 0380819E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D1
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

THIS REPORT, WITH DRAWING 73D6515/1, PROVIDES AN UPDATED ANALYSIS OF THE YAKOLEV PORTION OF THE RAMENSKOYE FLIGHT TEST CENTER. IT INCLUDES A CHRONOLOGY OF FACILITY GROWTH EXPRESSED IN TERMS OF ROOF COVERAGE AND FLOORSPACE FOR THE

25X1

1663
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

PERIOD FROM JULY 1961 THROUGH FEBRUARY 1978, A DETAILED DESCRIPTION OF ALL SIGNIFICANT BUILDINGS AND NEW CONSTRUCTION/EXPANSION, AND A COUNT OF AIRCRAFT AND COMPONENTS OBSERVED AT THE FACILITY. INFORMATION IN THIS REPORT SUPERCEDES PAR 73-577.*

25X1

AF PAR 577-78 12 APR 78 SEC CLASS: 13 MSN: 17P ACCN: 50840125X1

MISSILES, ICBM TYPE 3D SILO CONSTRUCTION

UR

WAC NO : 0167

BE/OBJ NO: 40A

NPIC NO :

25X1

IDHS CODE: 0167

EPF CAT : 40A

COMIREX NO:

25X1

THIS REPORT PROVIDES A DETAILED DESCRIPTION OF TYPE IIID SILO MODERNIZATION AND CONSTRUCTION. IT REFERENCES PAR'S 76-602 AND 74-510, AND DRAWINGS 75E1512/1 AND 76C1512.*

AF PAR 581-78 19 APR 78 SEC CLASS: 13 MSN: 3P ACCN: 50840125X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155

UR 554846N 0373034E

WAC NO : 0167

BE/OBJ NO: 056

NPIC NO : - 97-B1

25X1

IDHS CODE: 0167

EPF CAT : 056

COMIREX NO: 056

25X1

THIS REPORT, WITH DRAWING 76C6504/2, PROVIDES AN UPDATED ANALYSIS OF THE MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155. IT CONTAINS A DESCRIPTION OF NEW CONSTRUCTION AND A TABULATION OF PLANT GROWTH IN TERMS OF ROOF COVERAGE AND FLOORSPACE.

IT SUPERCEDES PAR 77-570. PAR 76-517 IS REFERENCED.*

AF PAR 583-78 21 APR 78 SEC CLASS: 13 MSN: 4P ACCN: 50840125X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115

UR 554817N 0373126E

WAC NO : 0167

BE/OBJ NO: 056

NPIC NO : - 46-C1

25X1

IDHS CODE: 0167

EPF CAT : 056

COMIREX NO: 056

25X1

1664
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT, WITH DRAWING 76C6503/2, PROVIDES AN UPDATED ANALYSIS OF THE MOSKVA EXPERIMENTAL PLANT 115. NEW CONSTRUCTION IS IDENTIFIED. A TABLE OF PLANT GROWTH IN TERMS OF FLOORSPACE AND ROOF COVERAGE IS INCLUDED.

IT SUPERCEDES PAR 77-571, AND PARAGRAPH 26 (7) OF PAR 77-333.*

AF PAR 585-78 01 MAY 78 SEC CLASS: 13 MSN: 6P ACCN: S084020 25X1
 LENINGRAD AVIATION ELCT PROD TECH INST IDENT UR 595735N 0302120E 25X1
 WAC NO : 0153 BE/OBJ NO: NPIC NO : 25X1
 IDHS CODE: EPF CAT : 25E COMIREX NO: 25X1

THIS REPORT, WITH DRAWING 78C6516, PROVIDES A DETAILED DESCRIPTION AND A 10-YR CHRONOLOGY OF THE LENINGRAD AVIATION ELECTRONIC PRODUCTION TECHNICAL INSTITUTE.*

25X1

AF PAR 588-78 27 APR 78 SEC CLASS: 13 MSN: 4P ACCN: S084022 25X1
 ELECTRONICS, MICROWAVE ANTENNAS SAM SITES UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25C COMIREX NO:
 MILITARY, AAA EQUIPMENT SEARCH SAM SITES UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:
 MISSILES, SAM SITES AAA EQUIPMENT SEARCH UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO: 25X1

1665
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF PAR 592-78 26 APR 78 SEC CLASS: 13 MSN: 2P ACCN: 50840225X1

PECHORA PHASED-ARRAY RADAR FACILITY ANT MSRMT UR 651230N 0571720E
WAC NO : 0093 BE/OBJ NO: NPIC NO : - 29-A
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1
25X1

AF PAR 597-78 27 APR 78 SEC CLASS: 13 MSN: 2P ACCN: 50840225X1

TYURATAM MTC SPACE SITE 63/4 SL-12 SLV UR 460423N 0625849E
WAC NO : 0246 BE/OBJ NO: NPIC NO : - 6-E5
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, SL-12 PAYLOAD MENSURATION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

DRAWING 76D1519 SUPPLEMENTS THIS REPORT.*

AF ENDR C6516-78 18 APR 78 SEC CLASS: 13 MSN: 1P ACCN: 50840225X1

LENINGRAD AVIATION ELCT PROD TECH INST 17 UR 595735N 0302120E
WAC NO : 0153 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-585.*

25X1

1666
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR B4513-78 14 APR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084028 25X1
EMBA MTC COMPLEX C TEL/CANISTER DIMENSIONS UR 483103N 0580207E
WAC NO : 0236 BE/OBJ NO: [] NPIC NO : - 22-E 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X15X1
THIS DRAWING SUPPLEMENTS PAR 78-576.*

AF ENDR D6508-78 10 MAR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084029 25X1
KAZAN AIRFRAME PLANT GORBUNOV 22 UR 555140N 0490700E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 14-G 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PAR 78-554.*

AF ENDR C4511-78 24 MAR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084030 25X1
KAZAN MISSILE PROPULSION R+D FACILITY UR 555345N 0485007E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 14-X 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
KAZAN LASER TEST RANGE POSS UR 555345N 0485031E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 14-X4 25X1
IDHS CODE: [] EPF CAT : 65A COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PAR 78-570.*

AF ENDR C4510-78 24 MAR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084031 25X1
KAZAN MISSILE PROPULSION R+D FACILITY UR 555345N 0485007E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 14-X 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PAR 78-570.*

AF ENDR B6518-78 24 APR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084032 25X1
MYS-TYK ASM RANGE PROB UR 514346N 1414027E
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 53-B 25X1
IDHS CODE: [] EPF CAT : 40J COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PAR 78-591.*

1667

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR D6515-1-73 07 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S0840325X1

RAMENSKOYE FLIGHT TEST CENTER AREA 2 UR 553424N 0380819E
WAC NO : 0167 BE/OBJ NO: NPIC NO : 50-01
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-516 AND 78-583.*

AF ENDR C6503-2-76 10 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S0840325X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115 UR 554817N 0373126E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-C1
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-565, 78-566, AND 78-567.*

AF ENDR C6504-2-76 04 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S0840325X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155 UR 554846N 0373034E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 97-B1
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-517 AND 78-581.*

25X1

1668
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR D6511-78 24 MAR 78

SEC CLASS: 13 MSN:

1P

ACCN: S084042

25X1

KAZAN MISSILE PROPULSION R+D FACILITY

UR 555345N 0485007E

WAC NO : 0165

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPE CAT : 40E

COMIREX NO:

25X1
25X1

25X1

25X1

25X1

1669
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR C4519-1-74 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: 50840425X1

KAZAN MISSILE PROPULSION R+D FACILITY UR 555345N 0485007E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 14-X
IDHS CODE: EPF CAT : 40E COMIREX NO:25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-570.*

AF ENDR C3510-2-74 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: 50840425X1

KAZAN MISSILE PROPULSION R+D FACILITY UR 555345N 0485007E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 14-X
IDHS CODE: EPF CAT : 40E COMIREX NO:
KAZAN LASER TEST RANGE POSS UR 555345N 0485031E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 14-X4
IDHS CODE: EPF CAT : 65A COMIREX NO:25X1
25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-570.*

AF ENDR E1512-1-75 24 MAR 78 SEC CLASS: 13 MSN: 1P ACCN: 50840425X1

MISSILES, ICBM TYPE 3D SILO CONSTRUCTION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 78-577, 76-602, AND 74-510 AND SUPERSEDES DRAWING 72E1522.*

DIA IIM 5B3-58378-78 26 MAY 78 SEC CLASS: 13 MSN: 2P ACCN: 50840425X1

KUYBYSHEV AIRCRAFT ENGINE PLANT FRUNZE 24 UR 531203N 0501642E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 18-A
IDHS CODE: EPF CAT : 05G COMIREX NO:25X1
25X1

DIA IIM 5B3-58350-78 01 JUN 78 SEC CLASS: 13 MSN: 6P ACCN: 50840425X1

POLICAN ARMS + AMMUNITION PLANT AL 403604N 0200650E
WAC NO : 0322 BE/OBJ NO: NPIC NO : - 3-A1
IDHS CODE: EPF CAT : 35G COMIREX NO:25X1
25X11670
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B1-58348-78 30 MAY 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S084049 25X1
ALMA ATA AVTOKOLONNA 2573
WAC NO : 0329 BE/OBJ NO: [] UR 431448N 0765100E 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: 25X1

DIA IIM 5B1-58351-78 30 MAY 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S084050 25X1
ALMA ATA AVTOKOLONNA 2588
WAC NO : 0329 BE/OBJ NO: [] UR 431711N 0765657E 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: 25X1

DIA IIM 5B1-58352-78 30 MAY 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S084051 25X1
ALMA ATA AVTOKOLONNA 2572
WAC NO : 0329 BE/OBJ NO: [] UR 431701N 0765507E 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: 25X1

DIA IIM 5B1-58360-78 18 MAY 78 [] SEC CLASS: 14B MSN: [] 6P ACCN: S084052 25X1
PETRODVORETS TANK REPAIR DEPOT
WAC NO : 0153 BE/OBJ NO: [] UR 595052N 0295950E 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: - 55-B2 25X1

25X1

DIA IIM 5B1-58376-78 MAY 78 [] SEC CLASS: 14 MSN: [] 4P ACCN: S084054 25X1
SAMARKAND AVTOKOLONNA 2214
WAC NO : 0337 BE/OBJ NO: [] UR 394039N 0665625E 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: 25X1

25X1

1671
TOP SECRET CHESS RUFF

25X1

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Next 2 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA IRP IS10096K-78

MAY 78

SEC CLASS: 13 MSN:

15P

ACCN: S084072

25X1

ARALSK R+D TROPOSCATTER + RADCOM RECEIVER STA

UR 464617N 0612048E

WAC NO : 0246

BE/OBJ NO:

NPIC NO : - 2-D

IDHS CODE:

EPF CAT : 25E

COMIREX NO:

25X1
25X1

ANALYSIS OF IMAGERY HAS RESULTED IN THE IDENTIFICATION OF A SOVIET STRATEGIC ROCKET FORCES FACILITY NEAR ARALSK THAT IS DESIGNED TO PERFORM RADAR CROSS SECTION ANALYSIS OF MISSILE PAYLOAD COMPONENTS. THIS INSTALLATION HAS BEEN OPERATIONAL SINCE AT LEAST 1969 AND WAS PREVIOUSLY KNOWN AS THE ARALSK RESEARCH AND DEVELOPMENT AND RECEIVER FACILITY. THE NEW IDENTIFICATION IS BASED ON THE ARRANGEMENT OF THE THREE AREAS THAT MAKE UP THE ARALSK FACILITY, THE PHYSICAL LAYOUT OF THE INDIVIDUAL AREAS, AND THE ELECTRONIC EQUIPMENT THAT WAS PRESENT. ADDITIONAL EVIDENCE FOR THIS IDENTIFICATION INCLUDES TWO SIGHTINGS OF SPHERES, WHICH ARE COMMON RADAR CROSS SECTION RANGE CALIBRATION DEVICES, AND THE IDENTIFICATION OF POSSIBLE REENTRY VEHICLE SHIPPING COMPONENTS.

THE ARALSK FACILITY IS PARTICULARLY WELL SUITED FOR EXPERIMENTATION WITH THREE OF THE VARIABLES THAT AFFECT RADAR CROSS SECTIONS -- RADAR SIGNAL FREQUENCY, SIGNAL POLARITY, AND THE ASPECT ANGLE OF THE TARGET.

25X1

1675

TOP SECRET CHESS RUFF

25X1

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Next 3 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA BIIR RCS13-0009-78 MAY 78 SEC CLASS: 13 MSN: 9P ACCN: S0840825X1

STERLITAMAK ELECTROCHEMICAL COMBINE

UR 534008N 0555602E

WAC NO : 0165

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 30F

COMIREX NO:

25X1
25X1

THE STERLITAMAK ELECTROCHEMICAL COMBINE PRODUCES BLEACHING AGENTS, POSSIBLY CHLORINATED HYDROCARBONS, AND UNIDENTIFIED CHEMICALS. IT HAS BEEN LISTED IN THE BASIC ENCYCLOPEDIA AS A PETROLEUM REFINERY, BUT OUR ANALYSIS INDICATES THAT IT DOES NOT REFINES PETROLEUM. SPECIFIC PRODUCTS OF THE COMBINE INCLUDE CHLORINE, CAUSTIC SODA, ACETYLENE, SODIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE, OXYGEN, AND NITROGEN. OTHER PRODUCTS THAT MAY BE PRODUCED THERE ARE METHYL CHLORIDE, HYDROCHLORIC ACID, AND TRICHLOROETHYLENE, AS WELL AS ADDITIONAL CHLORINATED HYDROCARBONS AND OTHER UNIDENTIFIED CHEMICALS. ACCORDING TO REPORTS, THE COMBINE ALSO PRODUCES ETHYLENE CHLORIDE, POLYVINYL CHLORIDE, GLYCERINE, AND ETHYLENEDIAMINE. HOWEVER, NONE OF THESE REPORTED PRODUCTS APPEARED ASSOCIATED WITH THE FOUR MAJOR UNIDENTIFIED PRODUCTION AREAS WITHIN THE COMBINE.

THE COMBINE WAS UNDER CONSTRUCTION WHEN FIRST OBSERVED IN 1962 AND BY 1966 A CHLORINE AND CAUSTIC SODA PLANT, A CALCIUM HYPOCHLORITE PLANT, AN ACETYLENE PLANT, AN AIR SEPARATION PLANT, AN UNIDENTIFIED PLANT, AND A POSSIBLE CHLORINATED HYDROCARBON PLANT HAD BEEN COMPLETED. A REPORTED ETHYLENE CHLORIDE PLANT WAS ALSO SUPPOSEDLY COMPLETED BY 1966. THE COMBINE HAS CONTINUED TO EXPAND SINCE THAT TIME. DURING THE 1971-75 FIVE-YEAR PLAN, CONSTRUCTION BEGAN ON A THIRD CHLORINE AND CAUSTIC SODA PLANT, A SODIUM HYPOCHLORITE PLANT, AND TWO UNIDENTIFIED PLANTS. BY MID-1977, CONSTRUCTION APPEARED COMPLETE ON ALL BUT ONE OF THE UNIDENTIFIED PLANTS. THE SOVIETS HAD ALSO BEGUN DISMANTLING PORTIONS OF THE ACETYLENE PLANT, POSSIBLY TO CORRECT PRODUCTION PROBLEMS.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE WHICH SUMMARIZES ITS PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

25X1

DIA IIM 5B1-58386-78 JUN 78 SEC CLASS: 14B MSN: 16P

ACCN: S0840925X1

BEOGRAD ARMY BARRACKS 60

YO 444639N 0202639E

1680
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0251 BE/OBJ NO: NPIC NO : - 151-H5
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 BEOGRAD ARMY BARRACKS SOUTH BANJICA 82 YO 444530N 0202920E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 151-H6
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 VALJEVO ARMY BARRACKS NORTH 4 YO 441645N 0195252E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 246-B
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 POZAREVAC ARMY BARRACKS 3/4 YO 443639N 0211120E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 157
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 POZAREVAC ARMY BARRACKS 2 YO 443820N 0211145E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 157-A
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 PETROVAC ARMY BARRACKS 1 YO 442233N 0212424E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 176
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 BEOGRAD ARMY BARRACKS/VEHICLE STORAGE 24 YO 4450 N 02030 E
 WAC NO : 0251 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 BEOGRAD ARMY BARRACKS/VEHICLE STORAGE 24 YO 4450 N 02030 E
 WAC NO : 0251 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35F COMIREX NO:
 ZEMUN ARMY BARRACKS NW 1 YO 445120N 0202300E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 151-61
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 KRAGUJEVAC ARMY BARRACKS 2/HQ 17TH ARMD DIV YO 440041N 0205429E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 160-B
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 BEOGRAD ARMY BARRACKS + HQ ZVEZDARA 91 YO 444740N 0203050E
 WAC NO : 0251 BE/OBJ NO: NPIC NO : - 151-F1
 IDHS CODE: EPF CAT : 35A COMIREX NO:
 MILITARY, 4TH INFANTRY DIVISION TITO GUARDS
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

DIA IIM 5B1-58392-78 JUN 78 SEC CLASS: 14 MSN: 3P

ACCN: S084091 25X1

YEREBAN AVTOKOLONNA 2978

WAC NO : 0325
IDHS CODE:BE/OBJ NO:
EPF CAT : 85AUR 400836N 0442720E
NPIC NO :
COMIREX NO:

DIA IIM 5B1-58394-78 JUN 78 SEC CLASS: 14 MSN: 3P

ACCN: S084092 25X1

1681
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DZHAMBUL AVTOKOLONNA

WAC NO : 0328

IDHS CODE:

BE/OBJ NO:

EPF CAT : 85A

UR 425145N 0711930E

NPIC NO :

COMIREX NO:

25X1

25X1

DIA IIM 5B1-58403-78 05 JUN 78 SEC CLASS: 14B MSN: 1P

ACCN: S08409325X1

RADZIONKOW ARMY BARRACKS WEST 1

WAC NO : 0232

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

PL 502420N 0185335E

NPIC NO : - 323-D

COMIREX NO:

25X1

25X1

RADZIONKOW ARMY BARRACKS SW 3

WAC NO : 0232

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

PL 502315N 0185320E

NPIC NO : - 323-D1

COMIREX NO:

25X1

25X1

25X1

1682
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

DIA IIM 583-58442-78 05 JUN 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5084106 25X1
DUBNO AIRFIELD NE TYPE-4/8 NUC WPNS STGE SRCH UR 502646N 0255004E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 107 25X1
IDHS CODE: [] EPF CAT : 55C COMIREX NO: [] 25X1
CIA INFR 1S10114K-78 18 MAY 78 [] SEC CLASS: 13 MSN: [] 5P ACCN: 508410725X1
PERM ARMAMENT + GM SUPT PLT 172 GUN NEW IDENT UR 580145N 0561708E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 16-C 25X1
IDHS CODE: [] EPF CAT : 356 COMIREX NO: [] 25X1
PERM ARMAMENT + GM SUPT PLT 172 GUN NEW IDENT UR 580145N 0561708E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 16-C 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
MILITARY, FIELD ARTILLERY WEAPON TOWED NEW UR
WAC NO : BE/OBJ NO: [] NPIC NO : []
IDHS CODE: EPF CAT : 35E COMIREX NO: []

OIA HAS IDENTIFIED A NEW TOWED FIELD ARTILLERY WEAPON AT THE PERM ARMAMENTS PLANT 172, USSR. THE OVERALL LENGTH OF THE WEAPON, WHICH HAS ONLY BEEN SEEN IN TRAVEL POSITION, IS APPROXIMATELY 13 METERS. [] LONGER THAN THE LENGTH OF AN M-46 130-MM FIELD GUN IN TRAVEL POSITION, WHICH IS ALSO MANUFACTURED AT THIS PLANT. THE GUN TUBE ON THE NEW WEAPON MEASURES 9 METERS AND HAS A MUZZLE BRAKE. IT ALSO HAS A RECUPERATOR CYLINDER THAT EXTENDS ABOVE AND BEYOND THE SHIELD WHEN THE GUN IS IN TRAVEL POSITION. THE [] CARRIAGE HAS A SPLIT-WINGED SHIELD POSITIONED BEHIND THE WHEELS, AND SPLIT TRAILS THAT HAVE A LUNETTE. THE TRAILS DO NOT HAVE A LIMBER. THE ACCOMPANYING GRAPHIC SHOWS A PROVISIONAL LINE DRAWING OF THE NEW GUN AND ALSO SHOWS A PHOTO OF THE GUN IN THE SHIPPING YARD AT PERM 172. THE CALIBER OF THE NEW WEAPON IS NOT KNOWN.

25X1

25X1

25X1

25X1

1684
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR IS10102J-78 09 MAY 78

SEC CLASS: 24 MSN:

3P

ACCN: S084110

25X1

GORKIY MOTOR VEHICLE PLANT BTR-60 APC PROD

WAC NO : 0154

BE/OBJ NO:

UR 561448N 0435341E

NPIC NO : - 13-E

IDHS CODE:

EPF CAT : 35G

COMIREX NO:

GORKIY MOTOR VEHICLE PLANT BTR-60 APC PROD

UR 561448N 0435341E

WAC NO : 0154

BE/OBJ NO:

NPIC NO : - 13-E

IDHS CODE:

EPF CAT : 85A

COMIREX NO:

KURGAN AGRICULTURAL MACH/ARMD VEH PLT BTR-60

UR 552545N 0651735E

WAC NO : 0164

BE/OBJ NO:

NPIC NO : - 9-A3

IDHS CODE:

EPF CAT : 35G

COMIREX NO:

KURGAN AGRICULTURAL MACH/ARMD VEH PLT BTR-60

UR 552545N 0651735E

WAC NO : 0164

BE/OBJ NO:

NPIC NO : - 9-A3

IDHS CODE:

EPF CAT : 30C

COMIREX NO:

MILITARY, BTR-60 APC PRODUCTION STATUS

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 35G

COMIREX NO:

THE BTR-60 SERIES ARMORED PERSONNEL CARRIER (APC) HAS BEEN PRODUCED AT TWO KNOWN PLANTS IN THE SOVIET UNION: GORKIY MOTOR VEHICLE PLANT GAZ AND KURGAN AGRICULTURE MACHINE AND ARMORED VEHICLE MODIFICATION PLANT. IT NOW APPEARS THAT BTR-60 PRODUCTION AT GORKIY GAZ HAS CEASED TO ALLOW FOR PRODUCTION OF A NEW APC, POSSIBLY THE BTR-70. IT ALSO APPEARS THAT KURGAN HAS ASSUMED ALL RESPONSIBILITY FOR CONTINUED BTR-60 PRODUCTION AS WELL AS FOR BTR-60 REBUILDING.

CIA INFR IS10107J-78 08 MAY 78

SEC CLASS: 13 MSN:

11P

ACCN: S084111

25X1

MISSILES, SS-7/8/9/11 AIRFRAMES SURPLUS STGE

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

1685

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

OIA HAS CONDUCTED A COMPREHENSIVE REVIEW OF THE IMAGERY OF SOVIET MISSILE SUPPORT REAR SUPPLY DEPOTS TO ASSIST IN ASCERTAINING THE DISPOSITION OF SURPLUS SS-7, SS-8, SS-9 AND SS-11 MISSILE AIRFRAMES THAT HAVE BEEN REMOVED FROM DEPLOYED STRATEGIC LAUNCHERS. THE RESULTS OF THIS REVIEW ARE CONTAINED IN EIGHT TABLES IN THIS MEMORANDUM. THE SOVIETS HAVE TRADITIONALLY STORED MISSILE AIRFRAMES WITHIN SPECIALLY-CONSTRUCTED, RAIL-SERVED STORAGE BUILDINGS AT THE REAR SUPPLY DEPOTS. THE MAJORITY OF THE MISSILES AND MISSILE CANISTERS SEEN AT THE DEPOTS WERE IN THE PROCESS OF BEING TRANSFERRED TO OR FROM STORAGE BUILDINGS. OIA BELIEVES THESE STORAGE BUILDINGS ARE VERY LIKELY THE PRIMARY LOCATIONS FOR THE BULK OF ANY MISSILE AIRFRAMES STORED AT THE DEPOTS. BECAUSE OF THIS, THOSE FEW MISSILES IMAGED ARE NOT BELIEVED TO PROVIDE A TRUE INDICATION OF THE ACTUAL NUMBERS PRESENT AT OR CAPABLE OF BEING STORED AT THE FACILITIES.

CIA INFR IS10112K-78 12 MAY 78 [] SEC CLASS: 13 MSN: 4P ACCN: S08411225X1

SEVERODVINSK SHIPYARD YAGRY Y CL DISMANTLING UR 643514N 0394907E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-K
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

IN MARCH 1978, THE SOVIETS ANNOUNCED THAT A NEW NUCLEAR-POWERED BALLISTIC-MISSILE SUBMARINE (SSBN) WITH 16 LAUNCHERS HAD GONE ON SEA TRIALS, AND THAT AN OLDER SSBN WITH 16 LAUNCHERS WAS BEING DISMANTLED. WITH THIS TRADE-OFF, THE SOVIETS REMAIN WITHIN THE LIMITS OF 62 MODERN SSBNs AND 950 MISSILE LAUNCH TUBES AGREED UPON UNDER THE TERMS OF THE STRATEGIC ARMS LIMITATION (SAL) INTERIM AGREEMENT.

ANNOUNCEMENT OF THE DISMANTLING OF 16 MISSILE LAUNCH TUBES WAS APPARENTLY IN SPECIFIC REFERENCE TO ACTIVITY UNDERWAY ON THE Y-CLASS SSBN WHICH ARRIVED AT YAGRI ISLAND SHIP REPAIR YARD IN LATE 1977. THE MISSILE LAUNCH TUBES ON THIS SUBMARINE HAVE BEEN REMOVED AT THE YARD, AND IT WILL EVENTUALLY BE EITHER CONVERTED TO SOME OTHER NON-BALLISTIC-MISSILE ROLE OR SCRAPPED. BY [] THE DATE OF THE LATEST COVERAGE USED IN THIS REPORT, ALL OF THE SUBMARINE'S 16 LAUNCH TUBES HAD BEEN REMOVED.

25X1

CIA INFR IS10108J-78 10 MAY 78 [] SEC CLASS: 24 MSN: 9P ACCN: S08411325X1

NAVAL, BALTIC FLEET COMBATANTS READINESS UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

THIS MEMORANDUM PRESENTS AN IMAGERY-DERIVED ANALYSIS OF THE READINESS POSTURE OF SELECTED SOVIET NAVAL COMBATANTS IN THE BALTIC FLEET FROM 1974 THROUGH 1977. NAVAL COMBATANTS DISCUSSED IN THIS REPORT INCLUDE W-CLASS DIESEL-POWERED, ATTACK SUBMARINES (SSS), W-LONG BIN-CLASS DIESEL-POWERED, CRUISE-MISSILE SUBMARINES (SSGS), KRESTA-I AND KRESTA-II-CLASS GUIDED-MISSILE CRUISERS (CGS), SVERDLOV-AND CHAPAYEV-CLASS LIGHT CRUISERS (CLS), AND SKORYY- AND MODIFIED SKORYY-CLASS DESTROYERS (DDs).

CIA INFR TSD039-78 10 MAY 78 [] SEC CLASS: 13 MSN: 3P ACCN: S08411425X1

TARKHANKUTSKIY POLUOSTROV MARINE MAMMAL R+D UR 452112N 0324413E
WAC NO : 0323 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 65A COMIREX NO:

25X1

25X1

1686
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

CIA INFR IS10110K-78 17 MAY 78

SEC CLASS: 13

4P

ACCN: S084115

25X1

WATERKLOFF AIRFIELD CROTALE SAM GAR IDENT

WAC NO : 1300

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

WATERKLOFF AIRFIELD CROTALE SAM GAR IDENT

WAC NO : 1300

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 40C

SF 2549515 0281322E

NPIC NO : - 1

COMIREX NO: []

SF 2549515 0281322E

NPIC NO : - 1

COMIREX NO: []

25X1

25X1

25X1

25X1

CIA INFR TSD041-78 15 MAY 78

SEC CLASS: 13

MSN:

2P

ACCN: S084116

25X1

AIRCRAFT, CHECH A

WAC NO :

IDHS CODE:

AIRCRAFT, CHUCK A

WAC NO :

IDHS CODE:

BE/OBJ NO: []

EPF CAT : 05B

BE/OBJ NO: []

EPF CAT : 05B

UR

NPIC NO :

COMIREX NO:

UR

NPIC NO :

COMIREX NO:

25X1

25X1

25X1

CIA INFR IS10124J-78 24 MAY 78

SEC CLASS: 13

MSN: []

18P

ACCN: S084118

25X1

MISSILES, ACTIVITY SUMMARY SALT RELATED

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40

UR

NPIC NO :

COMIREX NO:

THIS MEMORANDUM REPORTS STRATEGIC MISSILE ACTIVITY OBSERVED IN THE USSR DURING THE PERIOD []

25X1

1687

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR IS10106K-78 22 MAY 78 SEC CLASS: 13 MSN: 4P ACCN: S0841225X1

MISSILES, SS-11 MOD 1 REENTRY VEHICLE DMNS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

THE OFFICE OF IMAGERY ANALYSIS HAS DONE A COMPLETE REANALYSIS OF THE IMAGERY OF THE SS-11 MOD 1 ICBM REENTRY VEHICLE (RV) TO DETERMINE ITS SIZE AND SHAPE. THE SIZE AND SHAPE -- PARTICULARLY THE LATTER -- OF THE RV THAT WAS DETERMINED FROM OIA'S ORIGINAL ANALYSIS OF IMAGERY IS IN CONFLICT WITH THE SIZE AND SHAPE DETERMINED FROM ANALYSIS OF OTHER SENSOR COLLECTION SYSTEMS.

CIA INFR IS10122K-78 26 MAY 78 SEC CLASS: 13 MSN: 7P ACCN: S0841225X1

MURUNTAU GOLD ORE CONCENTRATION PLANT UR 412830N 0643120E
WAC NO : 0327 BE/OBJ NO: NPIC NO : - 20
IDHS CODE: EPF CAT : 30A COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES AN ANALYSIS OF THE ELECTRIC POWER CAPACITY AT THE MURUNTAU GOLD PLANT AND AN ESTIMATE OF THE TOTAL AMOUNT OF WASTE MATERIAL PRODUCED DURING THE PROCESSING OF GOLD ORE. IT ALSO DESCRIBES THE METHOD OF ORE EXCAVATION AT THE OPEN PIT MINE.

CIA INFR IS10127K-78 30 MAY 78 SEC CLASS: 13 MSN: 11P ACCN: S0841225X1

PAOTOU MISSILE EQUIPMENT + ARTILLERY PLT 447 CH 404105N 1095235E
WAC NO : 0288 BE/OBJ NO: NPIC NO : - 13-N
IDHS CODE: EPF CAT : 35G COMIREX NO:
PAOTOU MISSILE EQUIPMENT + ARTILLERY PLT 447 CH 404105N 1095235E
WAC NO : 0288 BE/OBJ NO: NPIC NO : - 13-N
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

25X1

25X1

25X1

PAO-TOU MISSILE SUPPORT EQUIPMENT (MSE) AND ARTILLERY PLANT 447 IS THE LARGEST KNOWN ARTILLERY PLANT IN CHINA. IT PRODUCES CSA-1 SURFACE-TO-AIR MISSILE (SAM) LAUNCHERS, TYPE 59 57-MM AND 100-MM ANTIAIRCRAFT ARTILLERY (AAA), AND THE 100-MM GUN FOR TYPE 59 TANKS.

CIA INFR IS10115K-78 16 MAY 78 SEC CLASS: 13 MSN: 7P ACCN: S0841225X1

MISSILES, SS-N-6 TRANSPORTER MODIFIED POSS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:
MISSILES, SS-NX-17 TRANSPORTERS UR

1688

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40G COMIREX NO:
 MISSILES, SS-N-8 TRANSPORTERS UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40G COMIREX NO:
 BALAKLAVA MTC SLBM TRANSPORTERS UR 443014N 0333122E
 WAC NO : 0250 BE/OBJ NO: NPIC NO : - 3-A4
 IDHS CODE: EPF CAT : 40G COMIREX NO:

25X1
25X1

MISSILE TRANSPORTERS SEEN AT THE BALAKLAVA MISSILE TEST CENTER (MTC) SUPPORTING THE SS-N-8 AND SS-NX-17 SUBMARINE-LAUNCHED BALLISTIC-MISSILE (SLBM) TESTING PROGRAMS WERE "INTERIM" VEHICLES. THEY DIFFERED CONSIDERABLY FROM THE "STANDARD" TRANSPORTERS SUBSEQUENTLY SEEN TRANSPORTING THESE MISSILES AT THE NENOKSA MTC AND AT DEPLOYED FACILITIES. OIA'S ANALYSIS ALSO REVEALED THAT A "NEW" MISSILE TRANSPORTER CURRENTLY AT BALAKLAVA TO SUPPORT AN UPCOMING SLBM POP-UP TEST PROGRAM IS PROBABLY A MODIFIED SS-N-6 TRANSPORTER. SINCE THE TRANSPORTERS INITIALLY USED TO SUPPORT THE SS-N-8 AND SS-NX-17 TEST PROGRAMS WERE INTERIM VEHICLES, IT IS POSSIBLE THAT THIS "NEW" TRANSPORTER IS ALSO AN INTERIM VEHICLE, AND THAT A DIFFERENT TRANSPORTER MAY BE SEEN WHEN TESTING OF THE NEW SLBM SHIFTS TO NENOKSA OR WHEN IT IS OPERATIONALLY DEPLOYED. IF THIS HAPPENS, ANY ESTIMATE OF THE NEW SLBM'S LENGTH AND DIAMETER BASED ON THE DIMENSIONS OF AN INTERIM TRANSPORTER MAY BE UNRELIABLE.

CIA INFR IS10126K-78 25 MAY 78 SEC CLASS: 13 MSN: 2P ACCN: S084124 25X1

LENINGRAD NAVAL COMMO R+D FACILITY SEARCH UR 5954 N 03023 E
 WAC NO : 0153 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25E COMIREX NO:
 STRELNA NAVAL COMMO R+D FACILITY SEARCH UR 5951 N 03002 E
 WAC NO : 0153 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25E COMIREX NO:

CIA INFR IS10123-78 23 MAY 78 SEC CLASS: 05 MSN: 6P ACCN: S084125

DIMASHQ MILITARY INSTLS RIFAAT ASAD FORCE SY 3330 N 03618 E
 WAC NO : 0426 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

THE ASAD FORCE IS SOMEWHAT SMALLER THAN A SYRIAN ARMORED DIVISION. OIA HAS IDENTIFIED AN ARMORED BRIGADE, A MECHANIZED INFANTRY REGIMENT, AND THREE INDEPENDENT TANK BATTALIONS WITH THE ASAD FORCE. COMBAT SUPPORT UNITS INCLUDE AN ARTILLERY REGIMENT, AN ANTIAIRCRAFT BATTALION, A CHEMICAL COMPANY, AND A SIGNAL COMPANY. THEY HAVE ALSO IDENTIFIED A UNIT KNOWN AS THE 915TH SPECIAL GROUP, WHICH PROTECTS RIFAAT ASAD.

CIA INFR IS10128J-78 26 MAY 78 SEC CLASS: 24 MSN: 46P ACCN: S084126 25X1

MILITARY, 68TH ARMY SHENYANG MILITARY REGION CH

1689
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE 68TH ARMY IS LOCATED IN EASTERN KIRIN PROVINCE, CENTRAL SHEN-YANG MILITARY REGION. THE ARMY HEADQUARTERS AND MAJOR SUPPORT ELEMENTS ARE LOCATED IN CHI-LIN, WITH THREE SUBORDINATE INFANTRY DIVISIONS LOCATED AT CHI-LIN, CHIAO-HO, AND YEN-CHI. ONLY ONE OF THESE DIVISIONS HAS A SUBORDINATE TANK REGIMENT.

ACCORDING TO SIGINT THE 68TH ARMY WAS LOCATED IN THE CHI-NAN MILITARY REGION UNTIL 1975 WHEN IT WAS ROTATED WITH THE 46TH ARMY, THEN IN THE SHEN-YANG MILITARY REGION. THERE IS NO PHOTOGRAPHIC EVIDENCE TO CONFIRM THE ROTATION OF THESE TWO ARMIES.

ATTACHED TO THIS MEMORANDUM ARE UNIT PHOTOGRAPHS ANNOTATED IN THE NATIONAL BASIC REFERENCE GRAPHIC (NBRG) FORMAT, OIA INSTALLATION BRIEFS, AND A TABLE LISTING ALL OF THE UNITS WHICH ARE SUBORDINATE TO THIS ARMY AND ITS DIVISIONS. THE ANALYSIS PRESENTED IN THIS MEMORANDUM HAS BEEN COORDINATED WITH THE CHINA GROUND FORCES WORKING GROUP.

CIA INFR IS10063K-78 24 APR 78 [] SEC CLASS: 13 MSN: 13P ACCN: S08412725X1

TRANSPORTATION, RAILROAD BAYKAL-AMUR MAIN

UR

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85B COMIREX NO:

THE BAYKAL-AMUR MAINLINE (BAM) RAILROAD WILL BE A 3,500 KILOMETER (KM) RAIL LINE FROM TAYSHET IN CENTRAL SIBERIA TO SOVETSKAYA GAVAN ON THE SEA OF JAPAN. WHEN COMPLETE, THE BAM WILL PROVIDE AN ALTERNATIVE ROUTE TO THE TRANS-SIBERIAN RAILROAD AND OPEN MINERAL RICH AREAS TO DEVELOPMENT. THE SOVIET'S TARGET DATE FOR COMPLETION OF THE LINE IS 1983 BUT, BASED PRIMARILY ON THE AMOUNT OF TRACK LAID SINCE 1974, THAT DATE APPEARS TO BE OPTIMISTIC. IF THE PRESENT RATE OF CONSTRUCTION CONTINUES, THE LINE WILL PROBABLY NOT BE COMPLETED BEFORE THE LATE 1980S.

DIA NBRG NDA07-5124-78 07 JUN 78 SEC CLASS: 05G MSN: 1P ACCN: S084128

ANADYR ARMY BARRACKS AL3

UR 644732N 1775616E

WAC NO : 0075 BE/OBJ NO: NPIC NO : - 2-M2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5125-78 07 JUN 78 SEC CLASS: 05G MSN: 1P ACCN: S084129

BEREZOVKA ARMY BARRACKS AL2

UR 503220N 1275010E

WAC NO : 0203 BE/OBJ NO: NPIC NO : - 87-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5126-78 07 JUN 78 SEC CLASS: 05G MSN: 1P ACCN: S084130

BEREZOVKA ARMY BARRACKS AL1

UR 503411N 1275124E

WAC NO : 0203 BE/OBJ NO: NPIC NO : - 211

25X1

1690

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5127-78 07 JUN 78 SEC CLASS: 05G MSN: 1P ACCN: S084131

TROITSKOYE ARMY BARRACKS AL1/SA-8 REGIMENT UR 444854N 1320218E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 69 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5123-78 07 JUN 78 SEC CLASS: 05B MSN: 1P ACCN: S084132

NIZHNEUDINSK MILITARY BARRACKS AL1 + HQ MRD UR 545450N 0990323E
WAC NO : 0160 BE/OBJ NO: [] NPIC NO : - 2-A 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5128-78 07 JUN 78 SEC CLASS: 05B MSN: 1P ACCN: S084133

OVRUCH ARMY BARRACKS AL1 + HQ TANK DIVISION UR 511947N 0284744E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 42-H 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA BIIR RDA05-0027-77 MAY 78 SEC CLASS: 14D MSN: [] 4P ACCN: S084134

CHERNIGOVKA AIRFIELD UR 441911N 1323246E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 7-B 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

CHERNIGOVKA AW RADAR FACILITY UR 442011N 1323638E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 7-B1 25X1
IDHS CODE: [] EPF CAT : 25A COMIREX NO: [] 25X1

CHERNIGOVKA AIRFIELD GCA SITE UR 441906N 1323250E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: [] 25X1

CHERNIGOVKA PETROLEUM PRODUCTS STORAGE UR 441955N 1323133E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 80A COMIREX NO: [] 25X1

CHERNIGOVKA AAM SUPPORT FACILITY UR 441930N 1323315E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 40J COMIREX NO: [] 25X1

THIS REPORT HAS BEEN PREPARED IN ACCORDANCE WITH DIA RESPONSIBILITIES FOR THIRD-PHASE EXPLOITATION UNDER THE NATIONAL TASKING PLAN TO UPDATE EXISTING BASIC REPORTS. DIA, RDA-05/0079/73, [] 25X1
CHERNIGOVKA AIRFIELD, U.S.S.R., APR 73 (TOP SECRET RUFF) IS THE BASIC REPORT. NOTE THE CHANGE TO THE MAP REFERENCE, AIRFIELD AND GCA SITE COORDINATES, AND THE CATEGORY OF THE AAM SUPPORT FACILITY.

1691
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC MEMO 25 MAY 78 SEC CLASS: 13 MSN: 2P ACCN: S0841325X1

PLZEN RADIO RELAY/TV/FM BROADCAST CTR KRASOV

WAC NO : 0231

BE/OBJ NO:

IDHS CODE:

EPF CAT : 25D

PLZEN RADIO RELAY/TV/FM BROADCAST CTR KRASOV

WAC NO : 0231

BE/OBJ NO:

IDHS CODE:

EPF CAT : 25B

PRAHA RADIO RELAY + TV RELAY STATION STRAHOV

WAC NO : 0231

BE/OBJ NO:

IDHS CODE:

EPF CAT : 25D

PRAHA RADIO RELAY + TV RELAY STATION STRAHOV

WAC NO : 0231

BE/OBJ NO:

IDHS CODE:

EPF CAT : 25B

ZLUTICE RADIO RELAY TOWER SEARCH

WAC NO : 0231

BE/OBJ NO:

IDHS CODE:

EPF CAT : 25D

CZ 495956N 0130450E

NPIC NO : - 136-J1

COMIREX NO:

CZ 495956N 0130450E

NPIC NO : - 136-J1

COMIREX NO:

CZ 500455N 0142305E

NPIC NO : - 140-A1

COMIREX NO:

CZ 500455N 0142305E

NPIC NO : - 140-A1

COMIREX NO:

CZ 5005 N 01318 E

NPIC NO :

COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DIA IIM 5B1-58397-78 JUN 78 SEC CLASS: 14 MSN: 4P ACCN: S0841325X1

LENINGRAD AVTOKOLONNA 2928

WAC NO : 0328

BE/OBJ NO:

IDHS CODE:

EPF CAT : 85A

UR 401455N 0694140E

NPIC NO :

COMIREX NO:

25X1

25X1

DIA IIM 5B1-58399-78 30 MAY 78 SEC CLASS: 14B MSN: 9P ACCN: S0841325X1

KAZANSKIY ARMY BARRACKS + TRAINING AREA AL1

WAC NO : 0164

BE/OBJ NO:

IDHS CODE:

EPF CAT : 35A

UR 550030N 0604445E

NPIC NO : - 70-C

COMIREX NO:

UR 550030N 0604445E

NPIC NO : - 70-C

COMIREX NO:

25X1

25X1

25X1

25X1

DIA IIM 5B1-58436-78 JUN 78 SEC CLASS: 14B MSN: 4P ACCN: S0841325X1

SUKHUMI AVTOKOLONNA 2658

WAC NO : 0324

BE/OBJ NO:

UR 430022N 0410007E

NPIC NO :

25X1

25X1

1692
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B1-58441-78 JUN 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: 5084140 25X1

SUKHUMI AVTOKOLONNA 2654
WAC NO : 0324 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B1-58452-78 05 JUN 78 [] SEC CLASS: 14B MSN: [] 3P ACCN: 5084141 25X1

KRASNOYE SELO ARMY BARRACKS VEHICLE PARK
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 220 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

KRASNOYE SELO ARMY BARRACKS VEHICLE PARK
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 220 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B3-58475-78 08 JUN 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5084142 25X1

KUSTANAY AIRFIELD WEST AIRCRAFT COUNT
WAC NO : 0164 BE/OBJ NO: [] NPIC NO : - 11-A 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA NBRG NDA06-5155-77 14 JUN 78 [] SEC CLASS: 05B MSN: [] 1P ACCN: 5084143

KALININGRAD SHIPYARD STATE 820
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 57-D 25X1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: [] 25X1

DIA NBRG NDA06-5116-77 14 JUN 78 [] SEC CLASS: 05B MSN: [] 1P ACCN: 5084144

ZELENODOLSK SHIPYARD 340
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 34-B 25X1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: [] 25X1

DIA NBRG NDA06-5117-77 14 JUN 78 [] SEC CLASS: 05B MSN: [] 1P ACCN: 5084145

VYBORG SHIPYARD
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 39-G1 25X1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: [] 25X1

25X1

1693

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

HULUTAO NAVAL BASE/SHPYD/PORT FAC SSBN CMPNTS CH 404309N 1205939E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 14-C
IDHS CODE: EPF CAT : 75B COMIREX NO:
HULUTAO NAVAL BASE/SHPYD/PORT FAC SSBN CMPNTS CH 404309N 1205939E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 14-C
IDHS CODE: EPF CAT : 75E COMIREX NO:
HULUTAO NAVAL BASE/SHPYD/PORT FAC SSBN CMPNTS CH 404309N 1205939E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 14-C
IDHS CODE: EPF CAT : 75I COMIREX NO:
SHIPS, SSBN LAUNCH CARRIAGE/CMPNTS NEW PROB CH
WAC NO : NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

25X1

25X1

25X1

25X1

25X1
25X1

RECENT IDENTIFICATIONS AT HU-LU-TAO NAVAL BASE SHIPYARD AND PORT FACILITY OF A 108-METER-LONG LAUNCH CARRIAGE AND A PROBABLE MISSILE SECTION COMPONENT OF A NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINE (SSBN) PROVIDE THE FIRST STRONG INDICATION OF SSBN CONSTRUCTION IN THE PEOPLE'S REPUBLIC OF CHINA (PRC). UNTIL THESE IDENTIFICATIONS WERE MADE, CONSTRUCTION OF AN SSBN WAS ONLY INFERRED FROM OBSERVATION OF OTHER RESEARCH AND DEVELOPMENT ACTIVITY.

25X1

DIA IIM 5B3-58474-78 09 JUN 78 SEC CLASS: 13 MSN: 4P
MOSKVA AIRCRAFT ENGINE PLANT 500 FLOORSPACE UR 555005N 0372616E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 52-A
IDHS CODE: EPF CAT : 05G COMIREX NO:
DIA IIM 5B3-58482-78 09 JUN 78 SEC CLASS: 13 MSN: 1P
LENINGRAD EXPLOSIVES R+D PLT PRPLNT MFG SRCH UR 600520N 0302910E

ACCN: 50841525X1

25X1

25X1

ACCN: 50841525X1

1694
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0103 BE/OBJ NO: NPIC NO : - 53-C
IDHS CODE: EPF CAT : 40E COMIREX NO:
PERM PROPELLANT MANUFACTURING FACIL SEARCH UR 580215N 0555026E
WAC NO : 0156 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:
LENINGRAD EXPLOSIVES R+D PLT PRPLNT MFG SRCH UR 600520N 0302910E
WAC NO : 0103 BE/OBJ NO: NPIC NO : - 53-C
IDHS CODE: EPF CAT : 35G COMIREX NO:

25X1

25X1

25X1

25X1

25X1

DIA IIM 5B3-58495-78 12 JUN 78 SEC CLASS: 13 MSN: 1P ACCN: 5084153 25X1

RESHMA AIRFIELD

WAC NO : 0154

BE/OBJ NO:

UR 572500N 0422820E

IDHS CODE:

EPF CAT : 05A

NPIC NO : - 103

COMIREX NO:

DIA IIM 5B1-58400-78 30 MAY 78 SEC CLASS: 14B MSN: 11P ACCN: 5084154 25X1

ROVNO ARMY/SAM TRNG AREA 1 HELI RANGE INAC

WAC NO : 0233

BE/OBJ NO:

UR 504544N 0263218E

IDHS CODE:

EPF CAT : 35B

NPIC NO : - 49-H

COMIREX NO:

ROVNO ARMY/SAM TRNG AREA 1 HELI RANGE INAC

WAC NO : 0233

BE/OBJ NO:

UR 504544N 0263218E

IDHS CODE:

EPF CAT : 05

NPIC NO : - 49-H

COMIREX NO:

ROVNO ARMY/SAM TRNG AREA 1 HELI RANGE INAC

WAC NO : 0233

BE/OBJ NO:

UR 504544N 0263218E

IDHS CODE:

EPF CAT : 40C

NPIC NO : - 49-H

COMIREX NO:

DIA IIM 5B1-58451-78 JUN 78 SEC CLASS: 14 MSN: 3P ACCN: 5084155 25X1

TBILISI AVTOKOLONNA 2651

WAC NO : 0325

BE/OBJ NO:

UR 414120N 0445155E

IDHS CODE:

EPF CAT : 85A

NPIC NO : - 61-P8

COMIREX NO:

DIA IIM 5B1-58454-78 JUN 78 SEC CLASS: 14 MSN: 3P ACCN: 5084156 25X1

TBILISI AVTOKOLONNA 2652

WAC NO : 0325

BE/OBJ NO:

UR 414325N 0444600E

NPIC NO :

1695

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1
DIA IIM 5B1-58455-78 JUN 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: 508415725X1
TBILISI AVTOKOLONNA 2656 UR 414321N 0444553E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1
NPIC PIR PIR023-78 MAY 78 [] SEC CLASS: 14 MSN: [] 9P ACCN: 508415225X1
MILITARY, MILITARY FACILITIES SOUTH AFRICAN WA
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, NAMIBIA-ANGOLA BORDER ACTIVITY WA
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, ANGOLA-NAMIBIA BORDER ACTIVITY AO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

ELEMENTS OF THE SOUTH AFRICAN AIR FORCE AND ARMY ARE DEPLOYED IN NORTHERN NAMIBIA, WHICH INCLUDES THE CAPRIVI STRIP, TO DEFEND THE COUNTRY AGAINST INFILTRATION FROM ANGOLA AND ZAMBIA BY GUERRILLAS WHO BELONG TO THE SOUTHWEST AFRICAN PEOPLE'S ORGANIZATION. A SERIES OF AIRFIELDS, AIRSTRIPS, MILITARY CAMPS, AND STRONGPOINTS HAVE BEEN ESTABLISHED TO SUPPORT THESE SOUTH AFRICAN FORCES. THE IDENTIFICATION AND DESCRIPTION OF THE MILITARY FACILITIES WERE DERIVED FROM IMAGERY OF FAIR INTERPRETABILITY OF THE BORDER AREA.

25X1

1696
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA IRA IS10094K-78 MAY 78

SEC CLASS: 13

MSN:

38P

ACCN: S084161

25X1

MILITARY, AAA UNITS ORGANIZATION + IDENT

WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35D	NPIC NO :
MILITARY, TYPE-58/ZPU-2 AA HEAVY MACHINE GUN		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35E	NPIC NO :
MILITARY, TYPE-56/ZPU-4 AA HEAVY MACHINE GUN		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35E	NPIC NO :
MILITARY, TYPE-55/TYPE-65/M1939 37MM AAA GUN		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35E	NPIC NO :
MILITARY, TYPE-59/S-60 57MM AAA GUN		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35E	NPIC NO :
MILITARY, 85MM AAA GUN/KS-12/18		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 35E	NPIC NO :
MILITARY, TYPE-59/KS-19 100MM GUN		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
		NPIC NO :

1697

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 35E COMIREX NO:
MILITARY, AAA ASSOCIATED FIRE CONTROL EQUIP CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:
ELECTRONICS, FIRE CONTROL RDR EQUIP AAA ASSOC CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:
ELECTRONICS, TEAM WORK RADAR TRAVEL MODE CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:
PHOTO, STEREO/MONOSCOPIC PHOTOS AAA EQUIPMENT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:

25X1

THIS REPORT PRESENTS THE CURRENT ORGANIZATION AND EQUIPMENT HOLDINGS OF CHINESE GROUND FORCE AAA UNITS AS OBSERVED ON OVERHEAD PHOTOGRAPHY. ALTHOUGH IT IS PRIMARILY INTENDED TO HELP PHOTOGRAPHIC INTERPRETERS IDENTIFY CHINESE AAA UNITS, IT ALSO PRESENTS INFORMATION THAT CAN BE USED IN ESTIMATING THE SIZE, CAPABILITIES, AND COST OF CHINA'S AAA FORCE. THE REPORT DOES NOT DISCUSS CHINESE AAA ORDER-OF-BATTLE OR UNIT LOCATIONS, AND STRATEGIC AAA UNITS ARE DISCUSSED ONLY TO THE EXTENT NECESSARY TO HELP DIFFERENTIATE THEM FROM THOSE WHICH ARE ORGANIC TO CHINESE GROUND FORCE UNITS.

THE REPORT IS PRESENTED IN TWO PARTS. THE FIRST DESCRIBES THE ORGANIZATION, THE MAJOR WEAPONS HOLDINGS, AND ANY RECENT IMPROVEMENTS NOTED IN EACH TYPE OF MAIN FORCE AAA UNIT. THIS PART ALSO INCLUDES A BRIEF DESCRIPTION OF AAA UNITS SUBORDINATE TO CHINA'S LOCAL DEFENSE FORCES. THE SECOND PART OF THE REPORT IS A PHOTO RECOGNITION KEY FOR EACH TYPE OF AAA GUN ORGANIC TO CHINESE AAA UNITS.

DIA B1IR RDA05-0019-77 JUN 78 SEC CLASS: 14B MSN: 18P

ACCN: 50841625X1

KALININ AIRFIELD UR 564932N 0354538E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 21
IDHS CODE: EPF CAT : 05A COMIREX NO:
KALININ ASM SUPPORT FACILITY UR 564956N 0354401E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 21-A1
IDHS CODE: EPF CAT : 40J COMIREX NO:
KALININ AIRFIELD GCA SITE UR 564935N 0354533E
WAC NO : 0154 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1
25X1

1698
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KALININ AW RADAR FACILITY

WAC NO : 0154

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25A

UR 565413N 0354949E

NPIC NO : - 21-B

COMIREX NO:

25X1
25X1

THIS REPORT SUPERSEDES DIA, RDA-05/0028/70, [] KALININ AIRFIELD, USSR, APRIL 1970 (TOP SECRET RUFF) AS THE BASIC REPORT FOR THE AIRFIELD.

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KALININ AIRFIELD FROM JULY 1961 TO SEPTEMBER 1976. THE BASE IS IN EUROPEAN USSR ON THE SOUTH BANK OF THE VOLGA RIVER, 5NM WEST OF KALININ AND 90NM NORTHWEST OF MOSCOW. FORMERLY A LONG-RANGE AVIATION BASE, KALININ NOW SERVES TACTICAL AIR ACTIVITIES AND TRANSPORTATION AVIATION (VTA) ACTIVITIES. DURING THE PERIOD OF THIS REPORT EXTENSIVE CONSTRUCTION ACTIVITY OCCURRED. MAJOR ITEMS COVERED IN THE REPORT INCLUDE A CONCRETE RUNWAY AND A PARALLEL AUXILIARY SOD RUNWAY, BOTH 2,499M X 79M, THE TAXIWAY SYSTEM, AIRCRAFT PARKING AREAS, POL STORAGE AREAS WITH A TOTAL ESTIMATED CAPACITY OF 21,637,320 LITERS, AN ASM SUPPORT FACILITY, A BIPOPELLANT STORAGE AREA, []

NAVIGATIONAL/LANDING/ELECTRONIC AIDS, TRANSPORTATION FACILITIES, STORAGE AREAS AND HOUSING/SUPPORT AREAS. AOB [] CONSISTED OF 43 FITTER, 18 COCK, 3 CUB, 1 CAR AND 1 FAGOT/MIDGET.

25X1
25X1
25X1

DIA NBRG NDA07-5088-78 08 JUN 78

SEC CLASS: 056 MSN:

1P

ACCN: S084163

TATUNG MILITARY AREA 3

WAC NO : 0288

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35

CH 4004 N 11317 E

NPIC NO :

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5089-78 08 JUN 78

SEC CLASS: 056 MSN:

1P

ACCN: S084164

TATUNG ARMY BARRACKS WEST AL4 + HQ ARMD DIV

WAC NO : 0288

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 400520N 1131332E

NPIC NO : - 16-J

COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5090-78 08 JUN 78

SEC CLASS: 056 MSN:

1P

ACCN: S084165

TATUNG ARMY BARRACKS NW AL3

WAC NO : 0288

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 400746N 1131546E

NPIC NO : - 16-62

COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5091-78 08 JUN 78

SEC CLASS: 056 MSN:

1P

ACCN: S084166

HSINTAIYUEH ARMY BARRACKS AL1 + HQ ARMD DIV

WAC NO : 0382

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 393219N 1124813E

NPIC NO : - 140

COMIREX NO: []

25X1
25X1

1699

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA NBRG NDA07-5092-78 08 JUN 78 SEC CLASS: 05G MSN: 1P ACCN: S084167
HUIJEN ARMY BARRACKS NORTH AL3 CH 395010N 1130530E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 87-A3
IDHS CODE: EPF CAT : 35A COMIREX NO:
DIA IIM 5B3-58500-78 13 JUN 78 SEC CLASS: 13 MSN: 1P ACCN: S084167
VRANGELYA OSTROV/SOMNITELNAYA AIRFIELD UR 705654N 1793430W
WAC NO : 0065 BE/OBJ NO: NPIC NO : - 7
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

25X1

25X11

25X1

25X1

25X1

1700
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B1-58478-78	12 JUN 78		SEC CLASS: 14	MSN:	2P	ACCN: S084184	25X1
LUBLIN MILITARY WAREHOUSE STORAGE NORTH 1					PL	512230N 0224030E			
WAC NO : 0232					BE/OBJ NO:	NPIC NO : - 92-E8			25X1
IUHS CODE:					EPF CAT : 35F	COMIREX NO:			25X1
DIA	IIM	5B1-58481-78	JUN 78		SEC CLASS: 14D	MSN:	3P	ACCN: S084185	25X1
IRKUTSK AVTOKOLONNA 1257					UR	521831N 1041805E			25X1
WAC NO : 0200					BE/OBJ NO:	NPIC NO :			25X1
IUHS CODE:					EPF CAT : 85A	COMIREX NO:			25X1
DIA	IIM	5B1-58487-78	JUN 78		SEC CLASS: 14	MSN:	3P	ACCN: S084186	25X1

1703
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IRKUTSK AVTOKOLONNA 1258

WAC NO : 0200

IDHS CODE:

BE/OBJ NO:

EPF CAT : 85A

UR 521819N 1041743E

NPIC NO :

COMIREX NO:

25X1

25X1

NPIC MEMO

14 JUN 78

SEC CLASS: 14B MSN:

3P

ACCN: 50841825X1

BAGRATONOVSK ARMY BKS KGB/SIGNAL UNITS SRCH

WAC NO : 0169

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

UR 542242N 0203739E

NPIC NO : - 4-B

COMIREX NO:

25X1

25X1

BOLSHAKOVO KGB/SIGNAL UNITS SEARCH

WAC NO : 0168

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35

UR 5453 N 02140 E

NPIC NO :

COMIREX NO:

KIGA KGB/SIGNAL UNITS SEARCH

WAC NO : 0153

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35

UR 5657 N 02406 E

NPIC NO :

COMIREX NO:

25X1

1704

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC PIR PIR024-78 JUN 78 SEC CLASS: 14B MSN: 5P ACCN: 5084191

25X1

PERM MILITARY TRNG AREA MBLZTN/CADRE DIV POSS UR 580022N 0562500E
WAC NO : 0156 BE/OBJ NO: NPIC NO : - 16-Y
IDHS CODE: EPF CAT : 35B COMIREX NO:

25X1

25X1

ELEMENTS OF A COMBAT MANEUVER REGIMENT AND ENGINEER BATTALION, WHICH MAY BE ELEMENTS OF A POSSIBLE
MOBILIZATION OR CADRE DIVISION, WERE OBSERVED AT PERM TRAINING AREA TA-1 AT
THE PRESENT TIME, THE OFFICIAL NAME DESIGNATOR FOR THE INSTALLATION IS BEING REVIEWED. WHEN THE TRAINING
AREA WAS LAST OBSERVED NO MILITARY EQUIPMENT WAS PRESENT.

25X1

25X1

25X1

1705
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC B1IR RCA09-0013-78 JUN 78 SEC CLASS: 25A MSN: 11P

ACCN: Sn841925X1

AL QAHIRAH GUIDED MSL DEV + RKT PROD PLT 333 EG 300500N 0312331E
WAC NO : 0447 BE/OBJ NO: NPIC NO : 2-W
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS REPORT UPDATES INFORMATION ON AL QAHIRAH GUIDED MISSILE DEVELOPMENT ROCKET AND RADAR PLANT 333, ARAB REPUBLIC OF EGYPT, FORMERLY KNOWN AS AL QAHIRAH GUIDED MISSILE DEVELOPMENT PRODUCTION CENTER HELIOPOLIS 333. THE PLANT CONSISTS OF EIGHT AREAS-SURFACE-TO-AIR MISSILE (SAM) MODIFICATION AND MAINTENANCE, SAM TRAINING, MOTOR POOL, ADMINISTRATION AND RECREATION, FABRICATION AND STORAGE, POSSIBLE TEST, POSSIBLE SOLID PROPELLANT PROCESSING AND HANDLING, AND A LARGE AREA APPARENTLY BEING PREPARED FOR PLANT EXPANSION. THIS REPORT DESCRIBES, AREA BY AREA, CHANGES AND CONSTRUCTION ACTIVITY OBSERVED AT THE PLANT, THE DATE OF THE LATEST IMAGERY USED IN THE LAST NPIC REPORT ON THE PLANT. EXPANSION AND CONSTRUCTION ACTIVITY AT THE PLANT BETWEEN DECEMBER 1972 AND DECEMBER 1977 (THE DATE OF THE LATEST COMPLETE PHOTOGRAPHIC COVERAGE OF THE PLANT) HAVE INCREASED THE SIZE OF THE PLANT AREA BY 50 PERCENT AND THE AMOUNT OF ROOF COVER BY 33 PERCENT.

25X11

THE REPORT INCLUDES SIX ANNOTATED PHOTOGRAPHS, A TABLE OF MENSURAL AND CHRONOLOGICAL DATA ON NEW STRUCTURES, AND A LOCATION MAP.

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NPIC B1IR RCA20-0003-78 JUN 78 SEC CLASS: 25B MSN: 2P ACCN: 5084197 25X1

SVERDLOVSK RADAR PLANT 356
WAC NO : 0156 BE/OBJ NO: NPIC NO : - 26-W
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1
25X1

ACTIVITY OBSERVED AT SVERDLOVSK RADAR PLANT 356, USSR, SINCE NOVEMBER 1972 HAS INCLUDED THE ADDITION OF ONE ENGINEERING/RESEARCH BUILDING, FOUR SHOP BUILDINGS, ONE VEHICLE STORAGE BUILDING, AND TEN SUPPORT BUILDINGS. A SECOND ENGINEERING/RESEARCH BUILDING IS UNDER CONSTRUCTION IN THE NORTHWEST CORNER OF THE PLANT, AND THE WALL ON THE SOUTH SIDE OF THE PLANT HAS BEEN EXTENDED.

THIS REPORT CONTAINS ONE TABLE, ONE ANNOTATED PHOTOGRAPH, AND A LOCATION MAP. THE REPORT UPDATES NPIC REPORT THE INFORMATION CUTOFF DATE IS 15 APRIL 1978.

25X1

NPIC SR SR045-78 JUN 78 SEC CLASS: 14B MSN: 4P ACCN: 5084197 25X1 25X1

BALAKLAVA MTC SLBM POP-UP TEST PROGRAM
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 3-A4
IDHS CODE: EPF CAT : 40G COMIREX NO:
BALAKLAVA SUBMARINE BASE + SHPYD POP-UP BARGE
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 3
IDHS CODE: EPF CAT : 75A COMIREX NO:
BALAKLAVA SUBMARINE BASE + SHPYD POP-UP BARGE
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 3
IDHS CODE: EPF CAT : 75E COMIREX NO:
SHIPS, SLBM TWIN TUBE POP-UP TEST BARGE
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

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ANALYSIS OF THE BALAKLAVA MISSILE TEST CENTER AND THE BALAKLAVA SUBMARINE BASE AND SHIP REPAIR YARD, USSR, SINCE APRIL 1976 INDICATES THAT PLATFORM 5 (A TWIN-TUBE POPUP BARGE) MAY HAVE BEEN OR MAY CURRENTLY BE INVOLVED IN A POPUP TEST PROGRAM FOR A NEW SLBM, WHICH IS EITHER SIMILAR IN SIZE TO OR A VARIANT OF THE SS-N-8, SS-N-18, OR POSSIBLY THE SS-NX-17 SLBM. PLATFORM 5 WAS PREVIOUSLY USED FOR POPUP TESTING OF THE SS-NX-17 BETWEEN 1973 AND 1975.

1708
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TOP SECRET CHESS RUFF

25X1

NPIC BIIR RCA09-0014-78

JUN 78

SEC CLASS: 25D MSN:

5P

ACCN: S084199 25X1

PEICHING MECHANICS INSTITUTE

WAC NO : 0381

BE/OBJ NO:

CH 395901N 1161915E

NPIC NO : 50-N1

IDHS CODE:

EPF CAT : 65A

COMIREX NO:

25X1

25X1

THIS REPORT DISCUSSES ACTIVITY AT THE PEI-CHING INSTITUTE OF MECHANICS IN THE PEOPLE'S REPUBLIC OF CHINA OBSERVED FROM APRIL 1974 THROUGH MID-DECEMBER 1977, THE INFORMATION CUTOFF DATE FOR THIS REPORT. IT UPDATES A SECTION OF NPIC REPORT WHICH SUBSTANTIALLY SATISFIES THE BASIC REPORTING REQUIREMENTS FOR THIS TARGET. MAJOR CONSTRUCTION CHANGES HAVE BEEN OBSERVED AT THE INSTITUTE SINCE APRIL 1974, WHICH RESULTED IN AN APPROXIMATE TOTAL INCREASE OF 8,072 SQUARE METERS OF FLOORSPACE. THIS REPORT INCLUDES A LOCATION MAP AND TWO ANNOTATED PHOTOGRAPHS, EACH WITH AN INSET TABLE.

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1709
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TOP SECRET CHESS RUFF

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DIA BIIR RDA11-0015-77 JUN 78 SEC CLASS: 14D MSN: 12P ACCN: S08420225X1

PAIYIN EXPLOSIVES PLANT 805

WAC NO : 0383 BE/OBJ NO: NPIC NO : - 58-B
IDHS CODE: EPF CAT : 35G COMIREX NO:
PAIYIN AMMUNITION DEPOT KUANYINTANG 17 CH 363115N 1041255E
WAC NO : 0383 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

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THIS REPORT SUPERSEDES CIA, DDI/IAR71501, PAI-YIN EXPLOSIVES PLANT 805, PAI-YIN, AUG 1970 (TOP SECRET RUFF CODEWORD) FORMERLY THE BASIC REPORT FOR THIS INSTALLATION AND AN UPDATE REPORT, DIA, BDA-11/0001/72, PAI-YIN EXPLOSIVES PLANT 805, CHINA, MAY 1971 (TOP SECRET RUFF CODEWORD).

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THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF THE PAI-YIN EXPLOSIVES PLANT 805, LOCATED 1.8 NM SOUTHEAST OF PAI-YIN IN KANSU PROVINCE, NORTH CENTRAL PEOPLE'S REPUBLIC OF CHINA (PRC). THE PLANT ENCOMPASSES 534 HECTARES. IT IS ROAD AND RAIL SERVED AND CONTAINS 412 BUILDINGS TOTALING 131,808 SQUARE METERS OF ROOF COVER. OF THESE, 40 ARE MAJOR PRODUCTION BUILDINGS (28 EXPLOSIVES PRODUCTION, 4 MUNITIONS LOADING, AND 8 CHEMICAL PROCESSING BUILDINGS), THAT CONSTITUTE 16 PERCENT (21,104 SQ M) OF TOTAL ROOF COVER. THE INSTALLATION HAS BEEN DIVIDED INTO 20 FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH. THE FUNCTIONAL AREAS ARE: ONE ADMINISTRATION/SUPPORT, THREE EXPLOSIVES STORAGE, TWO BARRACKS/SUPPORT, ONE STEAMPLANT/SUPPORT, ONE WASTE DISPOSAL, TWO OPEN, TWO CHEMICAL PROCESSING, ONE TOLUENE STORAGE, ONE PLANT MAINTENANCE/SUPPORT, ONE HIGH EXPLOSIVES AMMUNITION RESEARCH AND DEVELOPMENT, ONE TETRYL, ONE TNT, ONE RDX, ONE HMX, AND ONE PETN PRODUCTION LINE. IN ADDITION TO THE PRIMARY CATEGORY NUMBER LISTED IN THE DATA BLOCK, THESE CATEGORIES ARE ALSO REPORTED: 69140, 69320 AND 69340.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, FIVE ANNOTATED PHOTOGRAPHS, AND TWO TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

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1710
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TOP SECRET CHESS RUFF

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DIA IIM 5b3-58536-78 15 JUN 78

SEC CLASS: 13 MSN:

2P

ACCN: 5084217

25X1

BUZICA AIR FORCE SCHOOL POSS

CZ 483210N 0210430E

WAC NO : 0232

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 05

COMIREX NO:

25X1

DIA IIM 5b1-58477-78 JUN 78

SEC CLASS: 14B MSN:

4P

ACCN: 5084218

25X1

SZABADSZALLAS AMMUNITION DEPOT

HU 465400N 0191255E

WAC NO : 0251

BE/OBJ NO:

NPIC NO : - 227-A2

25X1

1713

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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DIA IIM IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 3P ACCN: S084219 25X1
5B3-58416-78 22 JUN 78 [] SEC CLASS: 13 MSN: []
STARAYA RUSSA AIRFIELD
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 74
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
DIA IIM 5B3-58548-78 19 JUN 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S084220 25X1
NURMALITSY AIRFIELD
WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 10
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
DIA IIM 5B1-58476-78 JUN 78 [] SEC CLASS: 14 MSN: [] 8P ACCN: S084221 25X1
SMIDOVICH SHELTER U/G RAILROAD CLF YARD ASSOC
WAC NO : 0204 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 85B COMIREX NO: []
SMIDOVICH SHELTER U/G RAILROAD CLF YARD ASSOC
WAC NO : 0204 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 10A COMIREX NO: []
DIA IIM 5B1-58497-78 20 JUN 78 [] SEC CLASS: 14B MSN: [] 3P ACCN: S084222 25X1
BIELSKO BIALA ARMY BARRACKS 2
WAC NO : 0232 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
DIA IIM 5B1-58512-78 20 JUN 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S084223 25X1
NOVOSIBIRSK AVTOKOLONNA 1233
WAC NO : 0162 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
DIA IIM 5B1-58535-78 14 JUN 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S084224 25X1
KAZAN AVTOKOLONNA 1186 SEARCH
WAC NO : 0165 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
NPIC BIIR RCA09-0020-77 JUN 78 [] SEC CLASS: 25B MSN: [] 35P ACCN: S084227 25X1

1714
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

UNEPETROVSK MISSILE DPC SSM ACTIVITY
WAC NO : 0234 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40H
MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40H
MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 65A
MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT
WAC NO : 0167 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY
WAC NO : 0236 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
MISSILES, SSM DEVELOPMENTS R+D/PROD INSTLS
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
VOTKINSK MISSILE/MACH/STEEL PLT 235 SSM ACT
WAC NO : 0155 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 30C
VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT
WAC NO : 0155 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E
VOTKINSK MISSILE/MACH/STEEL PLT 235 SSM ACT
WAC NO : 0155 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E

UR 482601N 0345828E
NPIC NO : - 7-C
COMIREX NO: []
UR 552746N 0383143E
NPIC NO : - 50-B
COMIREX NO: []
UR 554547N 0375209E
NPIC NO : - 58-N
COMIREX NO: []
UR 554547N 0375209E
NPIC NO : - 58-N
COMIREX NO: []
UR 554530N 0372928E
NPIC NO : - 46-I
COMIREX NO: []
UR 555130N 0373630E
NPIC NO : - 45-B2
COMIREX NO: []
UR 555130N 0373630E
NPIC NO : - 45-B2
COMIREX NO: []
UR 514818N 0550802E
NPIC NO : - 2-B
COMIREX NO: []
UR
NPIC NO : []
COMIREX NO: []
UR 570242N 0535903E
NPIC NO : - 13-B
COMIREX NO: []
UR 570224N 0540830E
NPIC NO : - 13-E
COMIREX NO: []
UR 570242N 0535903E
NPIC NO : - 13-B
COMIREX NO: []

THIS REPORT DESCRIBES THE RECENT DEVELOPMENTS AT EIGHT SOVIET STRATEGIC MISSILE RESEARCH, DEVELOPMENT, AND PRODUCTION FACILITIES INVOLVED IN SSM ACTIVITY. CURRENT PRODUCTION PROGRAMS FOR STRATEGIC MISSILE SYSTEMS AT THESE INSTALLATIONS INCLUDE THE SS-11, SS-17, SS-18, SS-19, SS-N-7, SS-N-9, AND SS-N-3/12. THERE IS IMAGERY-DERIVED EVIDENCE OF NEW AND MODIFIED SYSTEMS INCLUDING AT LEAST THREE FOLLOW-ON/NEW STRATEGIC SSM SYSTEMS AND AT LEAST FOUR NEW OR MODIFIED TACTICAL MISSILE SYSTEMS. THE STRATEGIC MISSILE SYSTEMS INCLUDE A FOLLOW-ON TO THE SS-17 AND SS-18 ICBMS AND A NEW SOLID PROPELLANT MISSILE SYSTEM. THE

1715

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25X1

TACTICAL MISSILE SYSTEMS INCLUDE A NEW NAVAL CRUISE MISSILE SYSTEM; A FOLLOW-ON TO THE SS-N-3/12 NAVAL CRUISE MISSILE SYSTEM; THE SS-21; AND THE SS-22, A SCALEBOARD FOLLOW-ON FORMERLY KNOWN AS THE KY-12. THIS REPORT IS BASED ON ALL PERTINENT KEYHOLE IMAGERY OF THE INSTALLATIONS ACQUIRED THROUGH 31 DECEMBER 1977, THE INFORMATION CUTOFF DATE OF THIS REPORT, AND UPDATES PREVIOUS REPORTS ON EACH OF THE EIGHT FACILITIES. IT CONTAINS A LOCATION MAP, 24 ANNOTATED PHOTOGRAPHS, AND 12 TABLES.

NPIC	PIR	PIR027-78	JUN 78	SEC CLASS: 14D	MSN:	13P	ACCN: 508422A25X1
CHANGSHA/TATO AIRCRAFT REPAIR FACILITY				CH	280410N 1125729E		
WAC NO : 0494		BE/OBJ NO:		NPIC NO :	- 15		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			225X1
KUEILIN/LICHIAT SUN AIRCRAFT REPAIR BASE	CONST			CH	251215N 1101609E		
WAC NO : 0497		BE/OBJ NO:		NPIC NO :	- 15-D		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
CHENG TU/TAIPINGSSU AIRCRAFT REPAIR BASE				CH	303702N 1035953E		
WAC NO : 0495		BE/OBJ NO:		NPIC NO :	- 29-V		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
WUCHUSSU AIRCRAFT MAINTENANCE/RPR BASE	CONST			CH	330918N 1071220E		
WAC NO : 0384		BE/OBJ NO:		NPIC NO :	- 14-A3		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
CHILIN/ERHTAITZU AIRCRAFT REPAIR BASE				CH	435959N 1262440E		
WAC NO : 0290		BE/OBJ NO:		NPIC NO :	- 120-C1		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
LIUHO AIRCRAFT MAINTENANCE + REPAIR BASE				CH	421149N 1254116E		
WAC NO : 0290		BE/OBJ NO:		NPIC NO :			25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
ANSHUN AIRCRAFT REPAIR FACILITIES U/C				CH	261542N 1055227E		
WAC NO : 0496		BE/OBJ NO:		NPIC NO :	- 30		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
KUEIYANG/LEICHUANG AIRCRAFT REPAIR FACILS U/C				CH	262434N 1063154E		
WAC NO : 0496		BE/OBJ NO:		NPIC NO :	- 10-E		25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
AIRCRAFT, REPAIR/MAINTENANCE BASES CONST ACT				CH			
WAC NO :		BE/OBJ NO:		NPIC NO :			
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			
TANGYANG AIRCRAFT REPAIR BASE				CH	304814N 1114659E		25X1
WAC NO : 0494		BE/OBJ NO:		NPIC NO :			
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
PEICHING AIRCRAFT REPAIR BASE U/C				CH	400347N 1163520E		25X1
WAC NO : 0289		BE/OBJ NO:		NPIC NO :			25X1
IDHS CODE:		EPF CAT :	05F	COMIREX NO:			25X1
NANCHING AIR FORCE AIRCRAFT REPAIR SHOP PUG				CH	315945N 1184844E		
WAC NO : 0386		BE/OBJ NO:		NPIC NO :			25X1

1716

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHSS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 05F	COMIREX NO:
SHANGHAI/TACHANG AIRCRAFT REPAIR BASE U/C		CH 311902N 1212522E
WAC NO : 0492	BE/OBJ NO: []	NPIC NO :
IDHS CODE: []	EPF CAT : 05F	COMIREX NO:
SHANGHAI/LUNGHUA AIRCRAFT REPAIR BASE U/C		CH 311048N 1212716E
WAC NO : 0492	BE/OBJ NO: []	NPIC NO :
IDHS CODE: []	EPF CAT : 05F	COMIREX NO:
WUKUNG AIRCRAFT MAINTENANCE + REPAIR BASE		CH 341607N 1081526E
WAC NO : 0384	BE/OBJ NO: []	NPIC NO :
IDHS CODE: []	EPF CAT : 05F	COMIREX NO:
WUHU AIRCRAFT REPAIR FACILITIES U/C		CH 312328N 1182428E
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 40
IDHS CODE: []	EPF CAT : 05F	COMIREX NO:
KUANGCHOU/PAIYUN AIRCRAFT REPAIR SHOP		CH 231101N 1131513E
WAC NO : 0614	BE/OBJ NO: []	NPIC NO :
IDHS CODE: []	EPF CAT : 05F	COMIREX NO:

25X1

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

THIS REPORT DISCUSSES CONSTRUCTION ACTIVITY OBSERVED AT 16 INTERMEDIATE-LEVEL AIRCRAFT MAINTENANCE AND REPAIR BASES IN THE PEOPLE'S REPUBLIC OF CHINA FROM NOVEMBER 1970 THROUGH MAY 1978. THE INFORMATION PRESENTED INCLUDES THE NUMBER OF REPAIR BASES, LOCATIONS, TYPES OF ASSOCIATED AIRCRAFT, DATES OF CONSTRUCTION, AND TYPES OF BUILDINGS ADDED. THE REPAIR BASES ARE ASSOCIATED WITH ALL TYPES OF AIRCRAFT-TRANSPORT, FIGHTER, AND BOMBER-AND ARE DISPERSED THROUGHOUT THE EASTERN PORTION OF CHINA, INDICATING THAT THE CHINESE HAVE AN ONGOING PROGRAM TO UPGRADE THE FACILITIES AND TO KEEP THEIR AIR FORCE OPERATIONAL.

CIA BIR RCS13-0006-78

JUN 78

SEC CLASS: 13

MSN: []

7P

ACCN: 5084229 25X1

HAMI IRON + STEEL PLANT		CH 425050N 0932720E
WAC NO : 0331	BE/OBJ NO: []	NPIC NO : - 1-62
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:
WULUMUCHI IRON + STEEL PLANT		CH 435030N 0871720E
WAC NO : 0330	BE/OBJ NO: []	NPIC NO : - 4-0
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:
INDUSTRY, IRON/STEEL PLTS HSINCHIANGWEIWUERH		CH
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 30C	COMIREX NO:

25X1
25X125X1
25X1
25X1

THERE ARE TWO PLANTS IN SINKIANG UIGHUR AUTONOMOUS REGION ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS. BOTH ARE IRON AND STEEL PLANTS.

THERE ARE ONE MEDIUM-SIZED AND TWO SMALL BLAST FURNACES AT THE PLANTS AND THEY ARE CAPABLE OF PRODUCING AN ESTIMATED 500 METRIC TONS OF PIG IRON PER DAY. THERE IS A SIDE-BLOWN CONVERTER BUILDING AT THE PLANT AT HA-MI AND A PARTIALLY DISMANTLED AND INOPERABLE SIDE-BLOWN CONVERTER BUILDING AT WU-LU-MU-CHI. THE WU-LU-MU-CHI PLANT CONTAINS A ROLLING MILL WITH A ROOF COVER OF APPROXIMATELY 7,000 SQUARE METERS.

1717

TOP SECRET CHSS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NO CONSTRUCTION ACTIVITY WAS EVIDENT AT EITHER PLANT. ONLY THE HA-MI PLANT WAS OPERATING WHEN SEEN ON THE LATEST AVAILABLE PHOTOGRAPHY.
THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES AT EACH PLANT AND PROVIDES AN ANNOTATED PHOTOGRAPH OF EACH. A MAP SHOWING PLANT LOCATIONS IS ALSO INCLUDED. THE CUTOFF DATES FOR INFORMATION IN THIS REPORT ARE OCTOBER 1976 FOR THE WU-LU-MU-CHI PLANT AND NOVEMBER 1977 FOR THE HA-MI PLANT.

25X1
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1718
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR037-78 JUL 78 SEC CLASS: 14A MSN: 4P ACCN: 5084233 25X1

JIJIGA ARMY BARRACKS NW MILITARY BUILDUP ET 092115N 0424610E
 WAC NO : 0789 BE/OBJ NO: NPIC NO : - 6-B 25X1
 IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1
 JIJIGA MILITARY BARRACKS AREA MIL BUILDUP ET 0918 N 04246 E
 WAC NO : 0789 BE/OBJ NO: NPIC NO : - 6-A 25X1
 IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1
 JIJIGA AW RADAR SITE IDENTIFICATION ET 092012N 0424958E
 WAC NO : 0789 BE/OBJ NO: NPIC NO : - 6-G 25X1
 IUHS CODE: EPF CAT : 25A COMIREX NO: 25X1
 JIJIGA VEHICLE MAINT + STGE FACIL MIL BUILDUP ET 092111N 0424727E
 WAC NO : 0789 BE/OBJ NO: NPIC NO : - 6-B1 25X1
 IUHS CODE: EPF CAT : 35F COMIREX NO: 25X1

A HIGH LEVEL OF MILITARY ACTIVITY WAS OBSERVED IN THE JIJIGA AREA, ETHIOPIA, 25X1

1719
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AN AIR WARNING (AW) RADAR SITE, SOVIET-STYLE OBSTACLE COURSES, AND A BASEBALL DIAMOND WERE OBSERVED
THERE FOR THE FIRST TIME. THE ENTIRE JIJAGA AREA WAS LAST OBSERVED

25X1
25X1

25X1

NPIC PIR PIR025-78 JUN 78 SEC CLASS: 14B MSN: 7P ACCN: 508425

MILITARY, PIPELINE BRIGADE UNITS PROB IDENT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
TRANSPORTATION, POL PIPELINE SECTIONS STORAGE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85E COMIREX NO:
MILITARY, TUM MOBILE PIPELAYING VEHICLE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:

1720
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

SIXTEEN PROBABLE PIPELINE UNITS HAVE BEEN IDENTIFIED IN THE WESTERN USSR. ALTHOUGH SIMILAR UNITS HAVE BEEN IDENTIFIED ELSEWHERE IN THE USSR AND EAST GERMANY, THIS REPORT WILL FOCUS ONLY ON THOSE UNITS IDENTIFIED IN THE LENINGRAD, BALTIC, BELORUSSIAN, CARPATHIAN, KIYEV, ODESSA, AND MOSCOW MILITARY DISTRICTS. THIS REPORT DESCRIBES THE LOCATIONS OF PROBABLE PIPELINE UNITS RATHER THAN THE SIZES OF THE UNITS. IN ADDITION, 27 FACILITIES WHICH STORE TACTICAL POL PIPE WERE IDENTIFIED.

25X1

CIA NOTE ISSN0004J-78 JUN 78

SEC CLASS: 25 MSN:

24P

ACCN: 5084246 25X1

PECHORA PHASED-ARRAY RADAR FACILITY

UR 651230N 0571720E

WAC NO : 0093

BE/OBJ NO: [REDACTED]

NPIC NO : - 29-A

IDHS CODE: [REDACTED]

EPF CAT : 25A

COMIREX NO: [REDACTED]

25X1

25X1

1721

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KOZHANOVICHI MOBILE IRBM SS-20 TRANS SIMUL UR 521121N 0274807E
WAC NO : 0168 BE/OBJ NO: NPIC NO : - 156-B3
IDHS CODE: EPF CAT : 40B COMIREX NO:
SEVERODVINSK SHIPYARD 402 SUB PRESSURE HULLS UR 643438N 0394832E
WAC NO : 0092 BE/OBJ NO: NPIC NO : - 7-A
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

25X1
25X1
25X1

SHUANGCHENG TZU MTC CSA-X-2 FLIGHT TEST PROB CH 410430N 1003110E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 1-P1
IDHS CODE: EPF CAT : 40C COMIREX NO:
BAGHDAD NUCLEAR RSCH CHEM SEP LAB PROB U/C IZ 331250N 0443020E
WAC NO : 0427 BE/OBJ NO: NPIC NO : - 1-S
IDHS CODE: EPF CAT : 55A COMIREX NO:
MISSILES, SS-20 TRANS SIZE-SIMULATOR DEVICE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:
INDUSTRY, PETROLEUM EXPLORATION ACTIVITY INCR KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30B COMIREX NO:
INDUSTRY, PETROLEUM REFINERY EXPANSION KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30A COMIREX NO:
MILITARY, SELF-PROPELLED ARTY SINO-SOVIET BDR MG
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:
MILITARY, SELF-PROPELLED ARTY SINO-SOVIET BDR UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:
KARIBIB URANIUM ORE CONC PLANT PROB IDENT WA 220646S 0155931E
WAC NO : 1273 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 55F COMIREX NO:
ELECTRONICS, SH-EL-3 RADAR TRAILER-MOUNTED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1
25X1

25X1
25X1

25X1
25X1

1722
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA BIIR RDA11-0019-77 JUN 78 [] SEC CLASS: 14B MSN: [] 7P ACCN: 508424 25X1

MARTIN ARMORED VEHICLE + LOCO PLT TURCIANSKE CZ 490350N 0185428E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 97
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []
MARTIN ARMORED VEHICLE + LOCO PLT TURCIANSKE CZ 490350N 0185428E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 97
IDHS CODE: [] EPF CAT : 85B COMIREX NO: []

25X1

25X1

25X1

25X1

SINCE THE BASIC REPORT, SIGNIFICANT CHANGES WITHIN THE INSTALLATION INCLUDE THE CONSTRUCTION/COMPLETION OF 43 BUILDINGS AND ADDITIONS TO 13 EXISTING BUILDINGS. THIS REPORT INCLUDES ALL CHANGES MADE TO THE PLANT DURING THE REPORTING PERIOD []
THIS REPORT UPDATES DIA, RDA-11/0003/71, [] MARTIN ARMORED VEHICLE PLANT TURCIANSKE STROHARNE, CZ, JUL 70, THE BASIC REPORT FOR THIS INSTALLATION.

25X1

25X1

25X1

DIA IIM 5B3-58415-78 23 JUN 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5084243 25X1

TEYKOVO AIRFIELD UR 565040N 0403010E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 58
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 5B3-58418-78 23 JUN 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5084244 25X1

TARNOGSKIY GORODOK AIRFIELD UR 603015N 0433600E
WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 57
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

25X1

25X1

1723
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-58558-78 23 JUN 78 [] SEC CLASS: 14B MSN: [] 4P ACCN: S0842425X1

GOLENIOW ARMY BARRACKS NE PL 533610N 0145510E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 85-A1 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
GOLENIOW MILITARY STORAGE FACILITY PL 533510N 0145542E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 85-A2 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1
GOLENIOW PETROLEUM PRODUCTS STORAGE NORTH PL 533656N 0144923E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 85-A4 25X1
IDHS CODE: [] EPF CAT : 80A COMIREX NO: [] 25X1

25X1

DIA IIM 5B1-58492-78 JUN 78 [] SEC CLASS: 14B MSN: [] 4P ACCN: S0842425X1

KOLUSZKI ORDNANCE DEPOT WEST 503 PL 514309N 0194155E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 72 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B1-58544-78 23 JUN 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S0842425X1

PRZEMYSL ARMY BARRACKS NORTH 1 PL 494741N 0224608E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 221-C5 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
PRZEMYSL RAILROAD ENGINEER BARRACKS 9 PL 494659N 0224830E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 141-A 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
PRZEMYSL ARMY BARRACKS PL 494735N 0224605E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 141-A1 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
PRZEMYSL ARMY BARRACKS PIKULICKIE PL 494517N 0224722E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 221-C4 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
PRZEMYSL ARMY BARRACKS ZURAWICA 3 PL 494833N 0224845E 25X1
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 141-A2 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

25X1

1724
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

CIA INFR IS10129K-78 14 JUN 78

SEC CLASS: 13 MSN:

5P

ACCN: 5084250

25X1

GENERAL, GRAIN IMPORT ACTIVITY 1976-1978

WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 10D
 NAVAL, PORT FACILS GRAIN IMPORT ACT 1976-1978
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 75I

UR
 NPIC NO :
 COMIREX NO:
 UR
 NPIC NO :
 COMIREX NO:

IMAGERY FROM JULY 1976 TO APRIL 1978 SHOWS NO EVIDENCE OF UNUSUALLY LARGE IMPORTS OF GRAIN INTO THE USSR. FROM MID-1976 ONWARD SOVIET GRAIN PORTS HAVE OPERATED AT LESS THAN HALF THE MAXIMUM LEVELS OF SHIPPING REACHED BETWEEN 1972 AND 1975 WHEN THE SOVIETS EXPERIENCED BAD HARVESTS AND WERE FORCED TO IMPORT EXTRA AMOUNTS OF GRAIN. SINCE MID-1976 NONE OF THE PREVIOUSLY OBSERVED INDICATORS OF PORT CONGESTION HAVE BEEN SEEN, E.G., FULL GRAIN BERTHS, GENERAL CARGO BERTHS USED FOR UNLOADING GRAIN-CARRYING SHIPS, AND BULK CARGO SHIPS AND POL TANKERS THOUGHT TO BE CARRYING GRAIN WAITING TO UNLOAD THEIR CARGO. HOWEVER, ADDITIONAL GRAIN HANDLING EQUIPMENT HAS BEEN INSTALLED AT THE GENERAL CARGO BERTHS OF SEVERAL PORTS.

CIA INFR IS10136K-78 13 JUN 78

SEC CLASS: 13 MSN:

6P

ACCN: 5084251

25X1

MEDVEZHYE/TORZHOK NATURAL GAS PIPELINE U/C

WAC NO : 0048 BE/OBJ NO:
 IDHS CODE: EPF CAT : 85E
 TORZHOK/MEDVEZHYE NATURAL GAS PIPELINE U/C
 WAC NO : 0154 BE/OBJ NO:
 IDHS CODE: EPF CAT : 85E

UR 6920 N 07400 E
 NPIC NO :
 COMIREX NO:
 UR 5703 N 03458 E
 NPIC NO :
 COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES AN ANALYSIS OF THE NORTHERN LIGHTS PIPELINE TO DETERMINE THE IMPACT THAT REPORTED CONSTRUCTION AND OPERATING PROBLEMS MAY HAVE HAD ON THE SOVIET'S ABILITY TO TRANSPORT NATURAL GAS FROM WESTERN SIBERIA TO THE WESTERN USSR. OIA'S STUDY WAS PROMPTED BY RECENT INFORMATION PROVIDED BY AN EMIGRE WHO STATED THE SOVIETS HAD PROBLEMS WITH THE EARLY OPERATION OF THE PIPELINE. OIA'S KEY FINDINGS ARE THAT NUMEROUS REPAIRS WERE MADE TO THE FIRST OF THIS GROUP OF FOUR PIPELINES DURING 1972-1974, ONE OF THE PIPELINES IS PROBABLY FOR GAS CONDENSATES, AND THAT IT IS UNLIKELY THAT ANY WESTERN SIBERIAN GAS REACHED THE NORTHERN LIGHTS PIPELINE BEFORE MID-TO-LATE 1977.

CIA INFR IS10125K-78 13 JUN 78

SEC CLASS: 13 MSN:

15P

ACCN: 5084252

25X1

MISSILES, SS-9/SS-18 REENTRY

VEHICLE CANS
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 40A

UR
 NPIC NO :
 COMIREX NO:

ANALYSIS OF IMAGERY OF DEPLOYED SS-9/SS-18 ICBM COMPLEXES AND OF THE TYURATAM MISSILE TEST CENTER HAS RESULTED IN THE IDENTIFICATION OF REENTRY VEHICLE (RV) CANISTERS THAT ARE USED TO SHIP VARIANTS OF THE

1725

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

SS-18 PAYLOADS. THESE RV CANISTERS ARE ALL CYLINDRICAL AND ARE PROBABLY CONSTRUCTED OF METAL. MOST, IF NOT ALL OF THE CANISTERS SEPARATE INTO TWO HALVES ALONG THEIR LONG AXIS. THE SIZE OF A PARTICULAR CANISTER IS DICTATED BY THE SIZE OF THE RV THAT IT IS DESIGNED TO CARRY.

IT WAS DETERMINED THAT THE SS-18 MOD 1 RVS ARE APPARENTLY SHIPPED IN THE SAME CANISTERS AS ARE USED FOR THE SS-9 MOD 1/25. THE CANISTER FOR THE SS-18 MOD 2 RVS WAS FIRMLY IDENTIFIED AND THE SS-18 MOD 3 RV CANISTER WAS POSSIBLY IDENTIFIED. BASED ON DETAILS OF THE SS-18 MOD 4 PAYLOAD THAT WERE DERIVED FROM ANALYSIS OF OTHER COLLECTION SYSTEMS, IT APPEARS THAT THE MOD 4 RVS COULD BE SHIPPED IN A CANISTER THAT IS SIMILAR, OR IDENTICAL TO THOSE USED FOR THE SS-18 MOD 2 RVS.

25X1

CIA INFR IS10145K-78 09 JUN 78

SEC CLASS: 13 MSN:

3P

ACCN: S084255

25X1

KARIBA AIRFIELD MILITARY ACT ZAMBIAN BORDER

RH 163106S 0285307E

WAC NO : 1177

BE/OBJ NO:

NPIC NO : - 2

IDHS CODE:

EPF CAT : 05A

COMIREX NO:

KARIBA AIRFIELD MILITARY ACT ZAMBIAN BORDER

RH 163106S 0285307E

WAC NO : 1177

BE/OBJ NO:

NPIC NO : - 2

25X1

25X1

25X1

25X1

1726
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []

EPF CAT : 35

COMIREX NO: []

25X1

ANALYSIS OF LATE APRIL AND EARLY MAY SATELLITE IMAGERY OF KARIBA AIRFIELD IN NORTHWEST RHODESIA SHOWED THAT INCREASED MILITARY ACTIVITY AND POL STOCKPILING MAY HAVE BEEN RELATED TO A HUMAN SOURCE REPORTED RHODESIAN CROSS-BORDER OPERATION INTO ZAMBIA. THE ACTIVITY OBSERVED CONSISTED OF AN ABOVE AVERAGE NUMBER OF TRUCKS, LIGHT-UTILITY AIRCRAFT, AND TWO HELICOPTERS AT THE AIRFIELD. IN ADDITION THERE HAS BEEN AN INCREASE IN THE POL STOCKPILE AT THE OPEN POL STORAGE AREA.

CIA INFR IS10146K-78 09 JUN 78 [] SEC CLASS: 13 MSN: 5P ACCN: 5084256 25X1

NEGAGE AIRFIELD CUBAN MILITARY TRNG/SUPT FACS	AO	074534S 0151647E	
WAC NO : 1027	BE/OBJ NO:	NPIC NO : - 11	
IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []	25X1
NEGAGE AIRFIELD CUBAN MILITARY TRNG/SUPT FACS	AO	074534S 0151647E	
WAC NO : 1027	BE/OBJ NO:	NPIC NO : - 11	25X1
IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []	25X1
NEGAGE MILITARY INSTALLATION	AO	074530S 0151550E	
WAC NO : 1027	BE/OBJ NO:	NPIC NO : - 11-A	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
NEGAGE MILITARY INSTL NORTH CUBAN OCCUPIED	AO	074552S 0151550E	
WAC NO : 1027	BE/OBJ NO:	NPIC NO : - 11-A1	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
MILITARY, CUBAN MILITARY TRAINING PROR	AO	-	
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 35B	COMIREX NO:	

THE NEGAGE AREA IN NORTHWEST ANGOLA HAS BEEN DEVELOPED INTO A MAJOR MILITARY BASE AND TRAINING AREA DURING THE PAST YEAR. REPETITIVE PHOTOGRAPHIC COVERAGE ALSO INDICATES THAT AN INSTALLATION AT NEGAGE, CONVERTED TO MILITARY USE IN JANUARY 1978, PROBABLY HOUSES A CUBAN MILITARY CONTINGENT INVOLVED IN TRAINING ANGOLAN FORCES.

CIA INFR IS10157K-78 22 JUN 78 [] SEC CLASS: 13 MSN: 6P ACCN: 5084257 25X1

MILITARY, EQUIPMENT DELIVERIES SOVIET	ET		
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 35	COMIREX NO:	
ASEB PORT FACILITIES MIL EQUIP DELIVERIES SOV	ET	130030N 0424530E	
WAC NO : 0687	BE/OBJ NO:	NPIC NO : - 16-A	25X1
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	25X1
ASEB PORT FACILITIES MIL EQUIP DELIVERIES SOV	ET	130030N 0424530E	
WAC NO : 0687	BE/OBJ NO:	NPIC NO : - 16-A	25X1
IDHS CODE: []	EPF CAT : 35	COMIREX NO: []	25X1

1727

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SOVIET MILITARY AID TO ETHIOPIA INTENSIFIED IN EARLY 1978, AS EVIDENCED BY THE INCREASED LEVEL OF SHIPPING ACTIVITY AND THE VOLUME OF MILITARY EQUIPMENT DELIVERIES OBSERVED ON SATELLITE PHOTOGRAPHY OF THE PORT OF ASEB. SOVIET MILITARY EQUIPMENT DELIVERIES DURING THE FIRST FOUR MONTHS OF 1978 WERE ALMOST DOUBLE THE TOTAL 1977 DELIVERIES. THE INCREASED DELIVERIES OF MILITARY EQUIPMENT TO ETHIOPIA IN EARLY 1978 WERE PREPARATIVE TO THE SOVIET AND CUBAN-SUPPORTED MARCH OFFENSIVE IN THE OGADEN. THESE DELIVERIES WILL UNDOUBTEDLY ALSO PROVIDE EQUIPMENT FOR ETHIOPIAN MILITARY ACTIONS IN ERITREA.

CIA INFR IS10159K-78 21 JUN 78 SEC CLASS: 14 MSN: 4P

ACCN: S08425f25X1

MILITARY, TUNNEL ACTIVITY DMZ KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, TUNNEL ACTIVITY DMZ KS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE NORTH KOREANS HAVE DUG TWO TUNNELS THAT OIA IS AWARE OF UNDER THE DEMILITARIZED ZONE (DMZ) INTO SOUTH KOREA. WHEN THESE TUNNELS WERE DISCOVERED BY THE SOUTH KOREANS THEY WERE INTERDICTED, ONE IN NOVEMBER 1974 AND THE OTHER IN MARCH 1975. IN MID-1976 OIA CONDUCTED A SEARCH OF SATELLITE PHOTOGRAPHY TO DETERMINE WHAT CONTRIBUTION PHOTOGRAPHY COULD MAKE IN IDENTIFYING NORTH KOREAN CLANDESTINE TUNNEL ACTIVITY UNDER THE DMZ. SINCE AN ACTUAL TUNNEL WOULD NOT NORMALLY BE SEEN, OIA WAS RESTRICTED TO SEARCHING FOR ADITS, SPOIL, AND UNUSUAL ACTIVITY.

SIX SITES WERE IDENTIFIED AS SUSPECT ENTRANCES TO TUNNELS THAT COULD PASS UNDER THE DMZ, ALTHOUGH, ONE SITE WAS LATER IDENTIFIED AS A POSSIBLE ORE PROCESSING FACILITY AND DELETED FROM THE LIST OF SITES. THESE SIX SITES ARE IN ADDITION TO THE ENTRANCE SITES FOR THE TWO INTERDICTED TUNNELS. OIA HAS REVIEWED THE STATUS OF ALL SITES AND THE RESULT OF THIS ANALYSIS IS CONTAINED IN THIS MEMORANDUM.

25X1

1728
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR IS10137K-78 19 JUN 78 SEC CLASS: 13 MSN: 3P ACCN: 5084261

WUCHAI MTC SSM SUPT FAC CSS-2 REENTRY VEH DMN CH 384520N 1114847E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 90-A
IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1
25X1

A PROBABLE CSS-2 REENTRY VEHICLE (RV) WAS SEEN AT THE WU-CHAI SSM SUPPORT FACILITY

25X1
25X1
25X1

ALTHOUGH THE NOSE OF THIS RV WAS PARTIALLY COVERED, IT APPEARED TO BE SHARP OR POINTED.*

25X1

1729
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR IS10147K-78 14 JUN 78 SEC CLASS: 13 MSN: 3P ACCN: S08426325X1

TYURATAM MTC ICBM SITE 11 SILO CONVERSION UR 455600N 0632603E
 WAC NO : 0246 BE/OBJ NO: NPIC NO : - 6-0
 IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

IN EARLY 1977 AT TYURATAM MISSILE TEST CENTER, THE SOVIETS BEGAN DISMANTLING THE LAUNCH SILO AT SITE 11 -- A FORMER SS-9 R+D SILO. ORIGINALLY IT WAS BELIEVED THAT A NEW TYPE SILO, SIMILAR IN SIZE TO THE TYPE IIIF (SS-18) WOULD ULTIMATELY BE BUILT AT THIS LOCATION. HOWEVER, ALL THE STANDARD COMPONENTS FOR CONSTRUCTION OF A CONVERTED TYPE IIIF WERE EVENTUALLY IDENTIFIED AND THE COMPLETED SILO APPEARS TO BE A STANDARD TYPE IIIF.

CIA INFR IS10141J-78 20 JUN 78 SEC CLASS: 24 MSN: 2P ACCN: S08426625X1

IZHEVSK MISSILE COMPONENTS ASSEMBLY BLDG SRCH UR 565019N 0531202E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3
 IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

CIA INFR IS10132J-78 09 JUN 78 SEC CLASS: 24 MSN: 8P ACCN: S08426725X1

SHUANGCHENG TZU MTC ICBM SITE B PLACARDS CH 411828N 1001854E
 WAC NO : 0287 BE/OBJ NO: NPIC NO : - 1-N
 IDHS CODE: EPF CAT : 40A COMIREX NO:
 SHUANGCHENG TZU MTC ICBM SITE A BANNERS CH 411653N 1001816E
 WAC NO : 0287 BE/OBJ NO: NPIC NO : - 1-K
 IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X125X1
25X1

OIA HAS STUDIED THE PRESENCE OF PLACARDS AND BANNERS AT LAUNCH COMPLEXES A AND B AT SHUANG-CHENG-TZU MISSILE TEST CENTER TO DETERMINE IF THEIR PRESENCE IS AN INDICATION OF AN IMPENDING MISSILE LAUNCH. NUMEROUS PLACARDS AND BANNERS WERE PRESENT AROUND THE LAUNCH PAD FOR 15 OF THE 19 KNOWN LAUNCHES FROM COMPLEX B -- OIA WAS UNABLE TO DETERMINE IF THEY WERE PRESENT FOR THE REMAINING FOUR LAUNCHES DUE TO INSUFFICIENT IMAGERY. THERE WERE NO PLACARDS OR BANNERS PRESENT FOR ANY OF THE 19 LAUNCHES FROM COMPLEX A. OIA BELIEVES THAT PLACARDS AND BANNERS, WHEN DEPLOYED IN QUANTITY IN THE IMMEDIATE AREA OF THE LAUNCH PADS AT COMPLEX B, ARE A GOOD INDICATION OF AN UPCOMING LAUNCH. HOWEVER, OIA FOUND NO CORRELATION BETWEEN

1730
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE NUMBER, CONFIGURATION OR ALIGNMENT OF THE PLACARDS OR BANNERS AND THE TYPE OF MISSILE BEING LAUNCHED. PLACARDS AND/OR BANNERS ARE NOT THE FIRST INDICATORS OF A LAUNCH THAT ARE USUALLY SEEN, BUT TOGETHER WITH THE OTHER INDICATORS, THEY ADD TO THE CONFIDENCE THAT A LAUNCH IS TO OCCUR. BASED ON THE THREE MOST RECENT LAUNCHES, OIA ESTIMATES THAT PLACARDS AND BANNERS ARE ERECTED ABOUT A WEEK PRIOR TO A PLANNED LAUNCH DATE.

CIA INFR IS10155K-78 16 JUN 78 [] SEC CLASS: 13 MSN: 7P ACCN: 5084268 25X1

NOVOSIBIRSK ICBM RTP SS-20 GSE DELIVERY POSS UR 551616N 0830133E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-Y2
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
NOVOSIBIRSK ICBM RTP SS-20 GSE DELIVERY POSS UR 551616N 0830133E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-Y2
IDHS CODE: [] EPF CAT : 40B COMIREX NO: []

25X1
25X125X1
25X1

OVER THE PAST SEVERAL YEARS THE SOVIETS HAVE DISMANTLED THE THREE SOFT AND TWO HARD SS-7 SITES AT NOVOSIBIRSK ICBM COMPLEX. ABOUT 18 MONTHS AGO AT THIS COMPLEX, CONSTRUCTION BEGAN ON FACILITIES TO SUPPORT DEPLOYMENT OF THE SS-20 MOBILE ICBM. A CONSIDERABLE AMOUNT OF RAIL TRAFFIC IS ASSOCIATED WITH BOTH DISMANTLEMENT AND THE NEW CONSTRUCTION. ONE OF THE NEWLY CONSTRUCTED FACILITIES CONSIST OF A SMALL ROAD NETWORK AND A RAIL-SERVED, OPEN-SIDED SHED FOR TRANSLOADING SS-20 MISSILES. THIS NEW FACILITY IS WITHIN THE SOUTHERN END OF THE FORMER SS-7 ICBM RAIL-TO-ROAD TRANSFER POINT (RTP).

IT HAS BEEN CONJECTURED THAT LIMITED DEPLOYMENT OF THE SS-20 MAY HAVE OCCURRED IN THE PAST FEW MONTHS. OIA HAS COMPLETED A COMPREHENSIVE ANALYSIS OF THE IMAGERY OF THE RAIL ROLLING STOCK IN THE NOVOSIBIRSK RTP AND ADJACENT AREAS IN AN EFFORT TO PROVIDE AN INDEPENDENT OPINION ON THE POSSIBILITY OF SS-20 DEPLOYMENT AT THIS COMPLEX. BASED ON ANALYSIS OF ALL IMAGERY FOR THE PERIOD OF JANUARY 1976 THROUGH 28 MAY 1978, OIA FOUND NO EVIDENCE THAT SS-20 MISSILES, MISSILE GROUND SUPPORT EQUIPMENT (GSE) OR ASSOCIATED OPERATIONAL EQUIPMENT HAD BEEN DELIVERED TO THE NOVOSIBIRSK COMPLEX. HOWEVER, ANALYSIS OF IMAGERY [] AND EARLY JUNE 1978, REVEALED WHAT MAY BE THE BEGINNING OF SS-20-RELATED GSE DELIVERIES TO NOVOSIBIRSK.

25X1

CIA INFR IS10156K-78 16 JUN 78 [] SEC CLASS: 13 MSN: 2P ACCN: 5084269 25X1

TYURATAM MTC ICBM SITE N3 TYPE 36 SILO U/C UR 460419N 0625722E
WAC NO : 0246 BE/OBJ NO: [] NPIC NO : - 6-U1
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

AT TYURATAM MISSILE TEST CENTER IN JULY 1977, THE SOVIETS BEGAN DISMANTLING THE SILO AT SITE N3, A FORMER SS-11 R+D SILO THAT HAD PREVIOUSLY BEEN MODIFIED FOR SS-19 FIRST STAGE TESTING. CONVERSION OF THE N3 SILO HAS NOW BEEN UNDERWAY FOR ABOUT 9 MONTHS AND IT APPEARS THAT THE NEW SILO WILL BE A STANDARD-DEPTH TYPE IIIG. WHEN COMPLETED, THIS WILL BE THE SEVENTH SILO OF ITS TYPE AT TYURATAM. FIVE OF THE CURRENT SIX TYPE IIIG SILOS ARE USED WITH THE SS-19 PROGRAM AND ONE FOR THE SS-11 ICBM. SO FAR, OIA HAS BEEN UNABLE TO LINK THE CONVERSION AT SITE N3 TO ANY OTHER TEST RANGE LAUNCHERS OR A LAUNCH CONTROL FACILITY.

AT THIS TIME, OIA CANNOT EXPLAIN THE NEED FOR A SEVENTH TYPE IIIG TEST RANGE SILO. COLLATERAL INFORMATION HAS SUGGESTED THAT THE SOVIETS ARE DEVELOPING A FOLLOW-ON MISSILE FOR EITHER THE SS-11 OR

25X1

1731
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
ZbX1

SS-19 AND THAT THIS NEW MISSILE MAY BE READY FOR FLIGHT TESTING IN LATE 1978. AS YET, THERE IS NO IMAGERY-DERIVED EVIDENCE OF A NEW MISSILE SYSTEM AT TYURATAM BUT IT IS POSSIBLE THAT THE CONVERTED N3 SILO WILL BE THE PRIMARY R+D SILO WHEN IT IS INTRODUCED. HISTORICALLY, IT HAS BEEN COMMON PRACTICE FOR ONE OR TWO TEST RANGE SILOS TO BE USED EXCLUSIVELY FOR THE R+D OF A NEW OR NEWLY MODIFIED ICBM.

25X1

1732
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 606-78 12 MAY 78 SEC CLASS: 13 MSN: 2P ACCN: S084286

TAGANROG AIRFRAME PLANT DIMITROV 86 A/C CNDNT UR 471150N 0385220E
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 38-D
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

25X1
25X1

THIS REPORT PROVIDES RESULTS OF MENSURATION DONE ON SELECTED AIRCRAFT COMPONENTS SEEN AT TAGANROG AIRFRAME PLANT 86. THE COMPONENTS INCLUDE A VERTICAL STABILIZER LYING IN FRONT OF A LONG ASSEMBLY BUILDING, TWO PARALLEL STRIPS AFT OF THE WINGS ON TWO CURL AIRCRAFT, AND A ROTODOME SECTION ON THE APRON IN FRONT OF A HANGAR-TYPE BUILDING IN THE PLANT AREA.*

25X1

AF PAR 600-78 10 MAY 78 SEC CLASS: 13 MSN: 2P ACCN: S084286

SHENYANG/PEICHING BURIED CABLE SEARCH CH 4147 N 12325 E
WAC NO : 0290 BE/OBJ NO: NPIC NO :

25X1

1735
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 25 COMIREX NO:
PEICHING/SHENYANG BURIED CABLE SEARCH CH 3955 N 11624 E
WAC NO : 0381 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

THIS REPORT SUPPLEMENTS PAR 77-701.*

AF	PAR	584-78	08 MAY 78		SEC CLASS: 13	MSN:	10P	ACCN: S084291	25X1	
KULUKOSHANMO INSTRUMENTATION SITE 05					CH 413755N 0884115E					
WAC NO : 0330					NPIC NO : - 86					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 06					CH 414150N 0895200E					
WAC NO : 0330					NPIC NO : - 80					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 07					CH 415430N 0901625E					
WAC NO : 0330					NPIC NO : - 81					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 08					CH 420030N 0904455E					
WAC NO : 0330					NPIC NO : - 82					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 09					CH 412710N 0894810E					
WAC NO : 0330					NPIC NO : - 83					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 10					CH 411720N 0900620E					
WAC NO : 0330					NPIC NO : - 84					25X1
IDHS CODE:					COMIREX NO:					25X1
KULUKOSHANMO INSTRUMENTATION SITE 11					CH 411425N 0903550E					
WAC NO : 0330					NPIC NO : - 85					25X1
IDHS CODE:					COMIREX NO:					25X1
LOPUPO AW RADAR FACILITY SINGER					CH 412816N 0884516E					
WAC NO : 0330					NPIC NO : - 56-B1					25X1
IDHS CODE:					COMIREX NO:					25X1

THIS REPORT PROVIDES A DETAILED PHOTO ANALYSIS OF THE KULUKOSHAN INSTRUMENTATION SITES 5 THROUGH 11 AND THE SINGER AW RADAR FACILITY WHICH ARE ASSOCIATED WITH THE YA-ERH-TANG IMPACT AREA.*

AF	PAR	579-78	09 MAY 78		SEC CLASS: 13	MSN:	6P	ACCN: S084291	25X1	
SARY SHAGAN MTC COMPLEX B SILO U/C					UR 460106N 0722804E					
WAC NO : 0245					NPIC NO : - 50-B					25X1
IDHS CODE:					COMIREX NO:					25X1
SARY SHAGAN MTC COMPLEX F SILO U/C					UR 462629N 0725108E					

1736
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0245 BE/OBJ NO: NPIC NO : - 49-86
 IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

THIS REPORT, WITH DRAWING 78E6514, PROVIDES AN ANALYSIS OF THE TWO SILOS UNDER CONSTRUCTION AT SARY-SHAGAN MTC LAUNCH COMPLEX B AND THE TWO SILOS AND THE SOFT LAUNCHER AT SARY-SHAGAN MTC LAUNCH COMPLEX F. IT ALSO PROVIDES CONSTRUCTION DETAILS AND PHYSICAL ASSOCIATIONS OF THE FIVE LAUNCHERS.*

AF PAR 604-78 10 MAY 78 SEC CLASS: 13 MSN: 5P

ACCN: 5084292 25X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE A8 UR 483530N 0462640E
 WAC NO : 0235 BE/OBJ NO: NPIC NO : - 86-A
 IDHS CODE: EPF CAT : 25C COMIREX NO:
 KAPUSTIN YAR MTC TRACKING FACILITY UR 483528N 0463230E
 WAC NO : 0235 BE/OBJ NO: NPIC NO : - 86
 IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X125X1
25X1

THIS REPORT PROVIDES A CHRONOLOGICAL UPDATE OF KAPUSTIN YAR INSTRUMENTATION SITE A8 AND KAPUSTIN YAR MTC TRACKING FACILITY SINCE PARS 74-603 AND 76-610.*

AF PAR 595-78 01 MAY 78 SEC CLASS: 13 MSN: 2P

ACCN: 5084293 25X1

FEODOSIYA NAVAL MSL SUPPORT FAC SA-X-10 EQUIP UR 450808N 0353337E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 7-6
 IDHS CODE: EPF CAT : 40G COMIREX NO:
 FEODOSIYA NAVAL MSL SUPPORT FAC SA-X-10 EQUIP UR 450808N 0353337E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 7-6
 IDHS CODE: EPF CAT : 40C COMIREX NO:
 SARY SHAGAN MTC COMPLEX G SA-X-10 EQUIPMENT UR 455149N 0732352E
 WAC NO : 0245 BE/OBJ NO: NPIC NO : - 78-A
 IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1
25X125X1
25X125X1
25X1

THIS REPORT GIVES CONCLUSIONS REGARDING SIMILARITY OF SA-X-10-RELATED EQUIPMENT LOCATED AT THE FEODOSIYA NAVAL MISSILE SUPPORT FACILITY AND SARY SHAGAN MTC LAUNCH COMPLEX G. IT IS KEYED TO PAR 76-646 AND DRAWING 76B4525.*

25X1

1737
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF PAR 586-78 11 MAY 78 SEC CLASS: 14 MSN: 6P ACCN: S084296-11 25X1

MURMANSK AW RADAR FACILITY

WAC NO : 0051

IDHS CODE:

BE/OBJ NO:

EPF CAT : 25A

UR 691240N 0332600E

NPIC NO : - 18-U1

COMIREX NO:

RYBACHIIY POLUOSTROV AW RADAR FACILITY

WAC NO : 0051

IDHS CODE:

BE/OBJ NO:

EPF CAT : 25A

UR 694500N 0321125E

NPIC NO : - 20-H2

COMIREX NO:

AF PAR 5-78 24 MAY 78 SEC CLASS: 08B MSN: 2P ACCN: S084296 25X1

AIRCRAFT, COCK B AN-22

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05D

UR

NPIC NO :

COMIREX NO:

DRAWINGS 65D5003 AND 78E1011 SUPPLEMENT THIS REPORT.*

25X1

AF ENDR E6514-78 28 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S084296-11 25X1

SARY SHAGAN MTC COMPLEX B LAUNCHERS NEW

WAC NO : 0245

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40E

UR 460106N 0722804E

NPIC NO : - 50-B

COMIREX NO:

SARY SHAGAN MTC COMPLEX F LAUNCHERS NEW

WAC NO : 0245

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40E

UR 462629N 0725108E

NPIC NO : - 49-B6

COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-579.*

AF ENDR D1503-78 06 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S084296-11 25X1

ELECTRONICS, 64-METER DISH ANTENNA

UR

1738
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 78-582.*

AF ENDR C4514-78 11 MAY 78 SEC CLASS: 13 MSN: 1P ACCN: S084300 25X1

AIRCRAFT, FOXBAT B MIG-25 WING STORE

UR

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

AIRCRAFT, FOXBAT D MIG-25 WING STORE

UR

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

AF ENDR E1010-78 05 MAY 78 SEC CLASS: 00 MSN: 1P ACCN: S084301

SPACE, BIOSATELLITE

UR

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 77-012.*

AF ENDR E1011-78 22 MAY 78 SEC CLASS: 08B MSN: 1P ACCN: S084302

AIRCRAFT, COCK B AN-22

UR

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 78-005.*

DIA IIM 583-58417-78 27 JUN 78 SEC CLASS: 13 MSN: 2P ACCN: S084303 25X1

VELSK AIRFIELD SOUTH

UR

WAC NO : 0102 BE/OBJ NO: 610216N 0420630E
IDHS CODE: EPF CAT : 05A NPIC NO : - 35-C
COMIREX NO:

25X1

25X1

DIA IIM 581-58575-78 27 JUN 78 SEC CLASS: 14B MSN: 2P ACCN: S084304 25X1

GROJEC MILITARY INSTALLATION U/I

PL

WAC NO : 0232 BE/OBJ NO: 515245N 0205620E
IDHS CODE: EPF CAT : 35A NPIC NO :
COMIREX NO:

25X1

GROJEC AIRFIELD

PL

WAC NO : 0232 BE/OBJ NO: 515245N 0205620E
NPIC NO : - 50

25X1

1739

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

	IDHS CODE:		EPF CAT : 05A	COMIREX NO:			25X1
DIA IIM	5B1-58576-78	23 JUN 78		SEC CLASS: 14	MSN:	3P	25X1
	KAZAN AVTOKOLONNA 1187			UR 554527N 0490713E			25X1
	WAC NO : 0165	BE/OBJ NO:		NPIC NO :			25X1
	IDHS CODE:	EPF CAT : 85A		COMIREX NO:			25X1
DIA IIM	5B3-58579-78	27 JUN 78		SEC CLASS: 13	MSN:	2P	25X1
	VOLOGDA/ZARECHYE AIRFIELD U/C			UR 591648N 0395638E			25X1
	WAC NO : 0154	BE/OBJ NO:		NPIC NO :			25X1
	IDHS CODE:	EPF CAT : 05A		COMIREX NO:			25X1
DIA IIM	5B3-58580-78	27 JUN 78		SEC CLASS: 13	MSN:	3P	25X1
	YAROSLAVL AIRFIELD			UR 573449N 0395416E			25X1
	WAC NO : 0154	BE/OBJ NO:		NPIC NO : - 70-A			25X1
	IDHS CODE:	EPF CAT : 05A		COMIREX NO:			25X1

25X1

1740
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC IIR IIR040-78 27 JUN 78 SEC CLASS: 05A MSN: 3P ACCN: S084312

VERISSIMO SARMENTO MILITARY CAMP NORTH EXPSN AO 075429S 0203523E
 WAC NO : 1028 BE/OBJ NO: NPIC NO : - 41
 IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

NPIC IIR IIR039-78 26 JUN 78 SEC CLASS: 14B MSN: 2P ACCN: S084313 25X1

SERPUKHOV SSM ENGINEERING/RSCH/TRNG FAC CONST UR 545401N 0372301E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 74-G
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 MISSILES, SS-16/20 RELATED CONSTRUCTION PROB UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40A COMIREX NO:
 MISSILES, SS-16/20 RELATED CONSTRUCTION PROB UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1
25X1

A NEW 11-BAY GARAGE (APPROXIMATELY 66 BY 18 METERS) WAS CONSTRUCTED AT THE SERPUKHOV SSM ENGINEERING RESEARCH/TRAINING FACILITY, USSR. IDENTICAL GARAGES HAVE BEEN CONSTRUCTED AT SS-16/-20-ASSOCIATED FACILITIES THROUGHOUT THE SOVIET UNION. THE PRESENCE OF THIS NEW BUILDING AND THE PREVIOUS CONSTRUCTION OF A PAYLOAD ASSEMBLY BUILDING INDICATE THAT THIS FACILITY MAY BE INVOLVED IN TRAINING STRATEGIC ROCKET FORCES PERSONNEL TO HANDLE PAYLOADS AND POSSIBLY MISSILE SUPPORT EQUIPMENT FOR THE SS-16/-20 ICBM/IRBM SYSTEMS.

25X1

CIA IRP IS10005K-78 JUN 78 SEC CLASS: 13 MSN: 23P ACCN: S084313 25X1

CHITA MOTOR VEHICLE PLANT ZIL ASSOCIATED UR 520350N 1131950E
 WAC NO : 0199 BE/OBJ NO: NPIC NO : - 2-V6
 IDHS CODE: EPF CAT : 85A COMIREX NO:

25X1
25X1

1741

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MOSKVA MOTOR VEHICLE PLT LIKHACHEV ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 94-A2
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
MTSENSK LIGHT/NONFERROUS METALS PLT ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 113
IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
MTSENSK LIGHT/NONFERROUS METALS PLT ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 113
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
ROSLAVL BRAKE EQUIPMENT PLANT ZIL ASSOCIATED
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
ROSLAVL SPARE PARTS PLANT ZIL ASSOCIATED
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
SERBDOBSK FABRICATION PLANT ZIL ASSOCIATED
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : - 25-B
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
SMOLENSK AUTO PARTS PLANT ZIL ASSOCIATED
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
YARTSEVO IRON FOUNDRY ZIL ASSOCIATED
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
YARTSEVO IRON FOUNDRY ZIL ASSOCIATED
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
TRANSPORTATION, ZIL MOTOR VEHICLE PROD ASSOC
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
BRYANSK TRACTOR + RR EQUIPMENT PLT ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 8-C1
IDHS CODE: [] EPF CAT : 85B COMIREX NO: []
BRYANSK TRACTOR + RR EQUIPMENT PLT ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 8-C1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
BRYANSK TRACTOR + RR EQUIPMENT PLT ZIL ASSOC
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 8-C1
IDHS CODE: [] EPF CAT : 30C COMIREX NO: []

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

EIGHT OF THE 16 PLANTS WHICH, ACCORDING TO PRESS REPORTS, MAKE UP THE ZIL MOTOR VEHICLE PRODUCTION ASSOCIATION HAVE BEEN IDENTIFIED ON PHOTOGRAPHY. THE PRINCIPAL PRODUCTS OF THE ASSOCIATION -- ONE OF THE OLDEST AND LARGEST OF THE SOVIET PRODUCTION ASSOCIATIONS -- ARE TRUCKS AND TRUCK PARTS, ALTHOUGH SOME OF

1742
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE PLANTS ALSO PRODUCE OTHER ITEMS SUCH AS CONSUMER DURABLES LIKE REFRIGERATORS. PHOTOGRAPHY SHOWS THAT ZIL ASSOCIATION PLANTS EXPANDED RAPIDLY AND AT LEAST TWO NEW PLANTS WERE BEGUN DURING THE 1970-77 PERIOD. EXPANSION OF PLANTS PRODUCING IRON CASTINGS HAS BEEN MUCH SLOWER THAN THE OVERALL RATE OF EXPANSION, HOWEVER, AND IT APPEARS THAT NEW FOUNDRY CAPACITY MAY NOT BE AVAILABLE UNTIL THE EARLY 1980S. INFORMATION FROM SOURCES OTHER THAN PHOTOGRAPHY INDICATES THAT THE ASSOCIATION HAS ALSO GROWN THROUGH THE ASSIMILATION OF PREVIOUSLY INDEPENDENT PLANTS.

25X1

1743

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-58591-78 JUL 78 SEC CLASS: 14B MSN: 2P ACCN: 50843125X1
GLIWICE MILITARY BARRACKS SW PL 501753N 0183850E
WAC NO : 0232 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA IIM 5B1-58596-78 28 JUN 78 SEC CLASS: 14 MSN: 2P ACCN: 508432125X1
LENINGRAD AVTOKOLONNA 1101 UR 595413N 0302047E
WAC NO : 0153 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 85A COMIREX NO: 25X1
NPIC MEMO 26 JUN 78 SEC CLASS: 13 MSN: 2P ACCN: 508432125X1
BERDICHEV AIRFIELD UR 495305N 0283040E
WAC NO : 0233 BE/OBJ NO: NPIC NO : - 3-A 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1

THIS MEMO DESCRIBES AIR ORDER-OF-BATTLE AND CHANGES/ADDITIONS AT BERDICHEV AIRFIELD. IMAGERY USED WAS

25X1
25X1

1744
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 10 JUL 78 SEC CLASS: 14D MSN: 2P ACCN: S084347 25X1

UST KAMCHATSK TROPOSCATTER FACIL NEW SEARCH

WAC NO : 0132 BE/OBJ NO: EPF CAT : 25D

NIKOLSKOYE TALL KING AW RADAR FAC TROPO SRCH

WAC NO : 0193 BE/OBJ NO: EPF CAT : 25D

NIKOLSKOYE TALL KING AW RADAR FAC TROPO SRCH

WAC NO : 0193 BE/OBJ NO: EPF CAT : 25A

MYS TERPENIYA TALL KING AW RADAR FAC TWIN EAR

WAC NO : 0205 BE/OBJ NO: EPF CAT : 25A

SMIRNYKH AIRFIELD AW RADAR FACILITY TWIN DISH

WAC NO : 0205 BE/OBJ NO: EPF CAT : 25A

SMIRNYKH AIRFIELD AW RADAR FACILITY TWIN DISH

WAC NO : 0205 BE/OBJ NO: EPF CAT : 25H

IDHS CODE: EPF CAT : 25H

UR 561320N 1622600E

NPIC NO :

COMIREX NO:

UR 551110N 1655930E

NPIC NO : - 3

COMIREX NO:

UR 551110N 1655930E

NPIC NO : - 3

COMIREX NO:

UR 484100N 1444000E

NPIC NO : - 41

COMIREX NO:

UR 494630N 1425150E

NPIC NO : - 11-H1

COMIREX NO:

UR 494630N 1425150E

NPIC NO : - 11-H1

COMIREX NO:

NPIC MEMO 11 JUL 78 SEC CLASS: 14B MSN: 2P ACCN: S084348 25X1

KRASNODAR TV + FM BROADCASTING CENTER

WAC NO : 0249 BE/OBJ NO: EPF CAT : 25B

UST LABINSK RADIO RELAY STATION

UR 450130N 0390020E

NPIC NO : - 19-D3

COMIREX NO:

UR 451500N 0394640E

1749

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0249 BE/OBJ NO: EPF CAT : 25D NPIC NO : - 91-A
IDHS CODE: TBILISSKAYA RADIO COMMO + AM BROADCAST STA COMIREX NO:
WAC NO : 0249 BE/OBJ NO: EPF CAT : 25D NPIC NO : - 19-J
IDHS CODE: TBILISSKAYA RADIO COMMO + AM BROADCAST STA COMIREX NO:
WAC NO : 0249 BE/OBJ NO: EPF CAT : 25D NPIC NO : - 19-J
IDHS CODE: KROPOTKIN RADIO RELAY STATION COMIREX NO:
WAC NO : 0249 BE/OBJ NO: EPF CAT : 25D NPIC NO : - 81-B
IDHS CODE: COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

THIS MEMO REVIEWS ANTENNA TYPES, AZIMUTHS, AND STATUS OF STATIONS ON THE KROPOTKIN-ILSKIY RADIO-RELAY
LINE.

25X1

AF PAR 6-78 08 JUN 78 SEC CLASS: 08I MSN: 2P ACCN: 5084350
AIRCRAFT, FORGER YAK-36 INLET ANALYSIS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:
FTD DRAWING 77E1001/1 SUPPLEMENTS THIS REPORT.*

25X1

AF PAR 570-78 20 APR 78 SEC CLASS: 13 MSN: 17P ACCN: 5084352
KAZAN MISSILE PROPULSION R+D FACILITY UR 555345N 0485007E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 14-X
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1
25X1

1750
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 598-78 01 MAY 78 SEC CLASS: 13 MSN: 4P ACCN: S08435525X1

KAPUSTIN YAR/ELTON MTC TRACKING FACILITY UR 490933N 0465144E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-J2
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

THIS PAR UPDATES 75-588 AND PROVIDES DETAILS OF AND A CHRONOLOGY OF SIGHTINGS OF THE TWIN EAR, SHIP
WHEEL AND OPTICAL FACILITIES AT THE KAPUSTIN YAR/LAKE ELTON TRACKING FACILITY FROM JUNE 1975 TO DECEMBER
1977.*

AF PAR 601-78 25 MAY 78 SEC CLASS: 13 MSN: 17P ACCN: S08435625X1

KIYEV AIRFRAME PLANT 473 UR 502752N 0302329E
WAC NO : 0233 BE/OBJ NO: NPIC NO : - 29-D
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES A PHOTO ANALYSIS UPDATE OF KIEV AIRFRAME PLANT 473 SHOWING NEW CONSTRUCTION,
BUILDING EXPANSION, AND BOUNDARY CHANGES WITHIN THE ANTONOV OKB AND THE TEST AREA. A HARDWARE LOCATION AND
DESCRIPTION FOR THESE TWO AREAS IS PROVIDED IN THIS REPORT FROM SEPTEMBER 1965 THROUGH FEBRUARY 1978.
THIS REPORT AND DRAWING NUMBER 78D6519 SUPERSEDES PARS 77-587, 75-656, 74-677, 72-790 PARA 2B(2),
74-538 PARA 2D(7), 75-505 PARA 2D(7), 77-508 PARA 2B(2) (A), 77-567 PARA 2B(1), 77-733 PARA 2B(1), AND
DRAWINGS 74C6540/2, 75C6539/1.*

25X1

1753
TOP SECRET CHESS RUFF

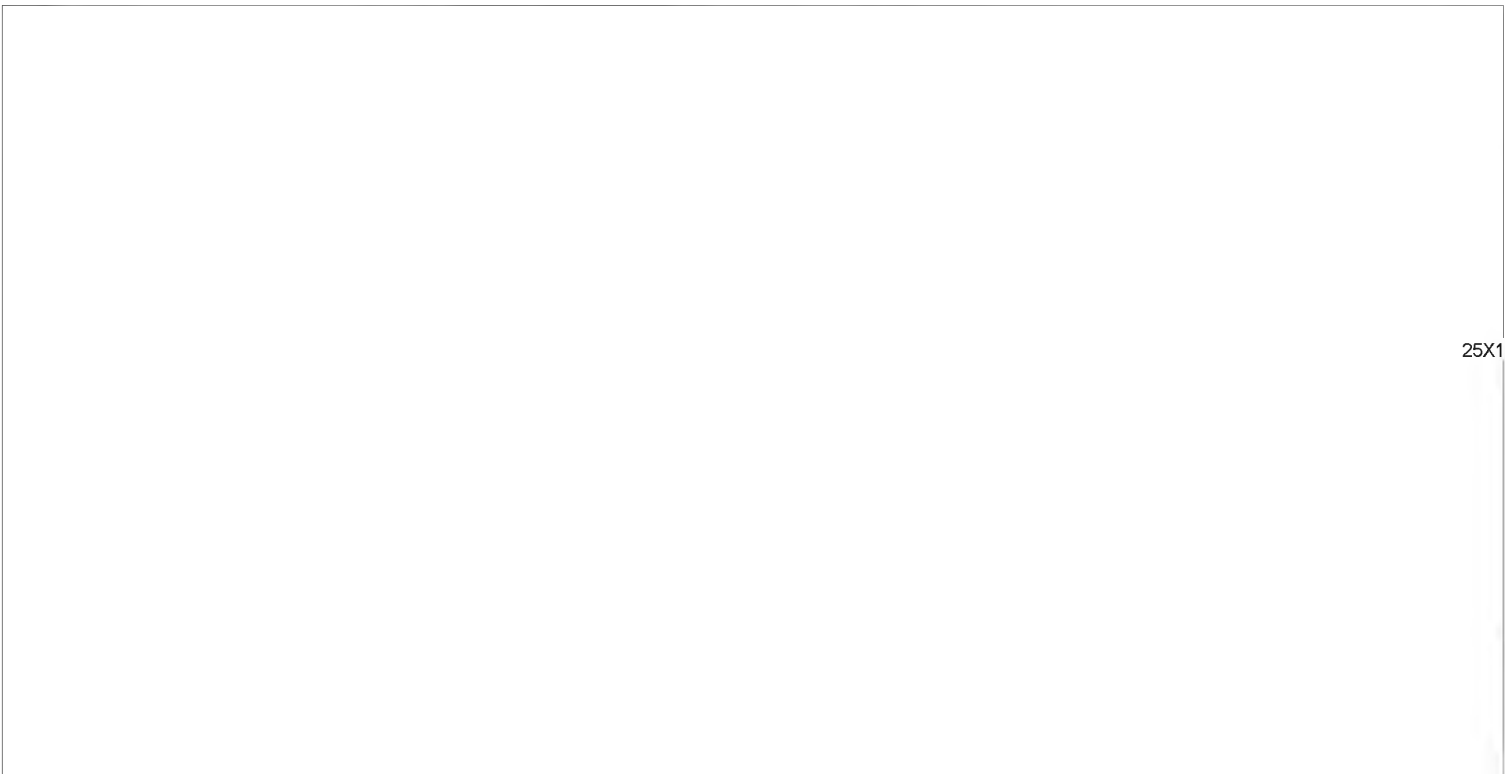
25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

AF PAR 611-78 26 MAY 78  SEC CLASS: 13 MSN:  5P ACCN: 5084360 ^{25X1}

KAPUSTIN YAR MTC INSTRUMENTATION SITE A7 UR 483800N 0461440E

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-B7
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
KAPUSTIN YAR MTC INSTRUMENTATION SITE C1 UR 483600N 0461600E 25X1
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-B6 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1

THIS REPORT UPDATES PAR 74-624, PARAGRAPH 2.A. AND PAR 76-610 PARAGRAPH 2.A.*

AF PAR 614-78 09 JUN 78 SEC CLASS: 13 MSN: 10P ACCN: S084361 25X1

PLESETSK MTC MOBILE ICBM FACILITY 1 UR 625858N 0404624E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-K1 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 225X1
PLESETSK MTC MOBILE ICBM FACILITY 2 UR 625117N 0403429E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-J2 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 5 UR 630316N 0405720E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-J1 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 6 UR 630057N 0405231E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-J8 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 11 UR 625732N 0412650E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-K6 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM ROAD-TO-RAIL TRANSFER POINT UR 625525N 0404504E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-J4 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM COMPLEX SUPPORT FACILITY 2 UR 625408N 0403812E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-J7 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1

PLESETSK MTC SUPPORT FACILITY EAST UR 625500N 0412500E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-W 25X1
IDHS CODE: EPF CAT : 40E COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 14 UR 625816N 0413342E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-K8 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 28 UR 625235N 0414452E 25X1
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-Q 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1

1755
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF ZARF

25X1
25X1

PLESETSK MTC ICBM COMPLEX SUPPORT FACILITY
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40A NPIC NO : - 27-J9
IDHS CODE: COMIREX NO: 25X1
PLESETSK MTC CONSTRUCTION U/I
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40E NPIC NO : - 27-Q1
IDHS CODE: COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 16
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40A NPIC NO : - 27-R
IDHS CODE: COMIREX NO: 25X1
PLESETSK MTC ICBM SITE 21
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40A NPIC NO : - 27-R5
IDHS CODE: COMIREX NO: 25X1
PLESETSK MTC GSE HANDLING FACILITY
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40E NPIC NO : - 27-M9
IDHS CODE: COMIREX NO: 25X1
PLESETSK MTC MISSILE HANDLING FACILITY
WAC NO : 0102 BE/OBJ NO: EPF CAT : 40E NPIC NO : - 27-M
IDHS CODE: COMIREX NO: 25X1

THIS REPORT UPDATES PAR 77-712. IT PROVIDES INFORMATION ON MOBILE SYSTEMS ACTIVITY AT SELECTED SITES OF THE PLESETSK MISSILE AND SPACE CENTER FROM SEPTEMBER 1977 TO MAY 1978. ADDITIONAL INFORMATION REGARDING CONSTRUCTION PROCEDURES OF THE SS-16 RELATED STRUCTURES ARE PROVIDED BY PAR 77-160 AND DRAWING 77E6518. PAR 78-596 CONTAINS A COMPARISON OF COMMON FACILITIES LOCATED AT PROBABLE SS-16 AND SS-20 SITES.*

AF PAR 616-78 08 JUN 78 SEC CLASS: 13 MSN: 3P

ACCN: S084362 25X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE C
WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 10-X
IDHS CODE: COMIREX NO: 25X1
KAPUSTIN YAR MTC INSTRUMENTATION SITE C3
WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO :
IDHS CODE: COMIREX NO: 25X1

THIS REPORT UPDATES PAR 76-610, PARAGRAPHS 2B AND 2C.*

AF PAR 617-78 08 JUN 78 SEC CLASS: 13 MSN: 2P

ACCN: S084362 25X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE 5
WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 28
IDHS CODE: COMIREX NO: 25X1
KAPUSTIN YAR MTC INSTRUMENTATION SITE 6
WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 28-A
IDHS CODE: COMIREX NO: 25X1

1756
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE 7
 WAC NO : 0235 BE/OBJ NO: NPIC NO : - 28-B
 IDHS CODE: EPF CAT : 25C COMIREX NO:
 KAPUSTIN YAR MTC INSTRUMENTATION SITE 8
 WAC NO : 0235 BE/OBJ NO: NPIC NO : - 28-D
 IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

25X1

25X1

THIS REPORT GIVES SIGNIFICANT ACTIVITY AT THE KAPUSTIN YAR INSTRUMENTATION SITES 5, 6, 7, AND 8 OF THE
 KAPUSTIN YAR LAUNCH COMPLEXES.

25X1

AF PAR 621-78 02 JUN 78 SEC CLASS: 13 MSN: 4P ACCN: S084364

KAPUSTIN YAR/AUZY KUDOK TRACKING FACILITY
 WAC NO : 0235 BE/OBJ NO: NPIC NO : - 40-B
 IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

THE KY/AUZY KUDOK TRACKING FACILITY IS LOCATED 14 KILOMETERS ESE OF AUZY KUDOK. THE FACILITY,
 CONSISTS OF A PEDESTAL-MOUNTED, SINGLE-ELEMENT, HELIX-TYPE
 ANTENNA, A ONE-STORY CONTROL BUILDING, A ONE-STORY ADMINISTRATION BUILDING, A FIVE-BAY GARAGE, A BARRACKS
 BUILDING, SIX SUPPORT BUILDINGS, A MOTORPOOL AREA, A POL STORAGE AREA, A BIVOUAC AREA, A BASKETBALL COURT,
 AND A VOLLEYBALL COURT. AN OVERHEAD UTILITY LINE ENTERS/EXITS THE FACILITY FROM THE NORTH AND CONTINUES IN
 A SOUTHERLY DIRECTION FROM THE FACILITY. THERE IS NO PHOTOGRAPHIC EVIDENCE OF BURIED CABLES TO OR WITHIN
 THE FACILITY. THE SINGLE-ELEMENT, HELIX-TYPE ANTENNA IS MOUNTED ATOP A 5-METER HIGH PEDESTAL WHICH IS
 LOCATED 15 METERS SOUTHWEST OF THE CONTROL BUILDING. THE ANTENNA IS HIGH AND HAS A
 SQUARE GROUND PLANE REFLECTOR. IT IS UNDETERMINED IF THE ANTENNA HAS SPIRAL OR DISC-TYPE ELEMENTS. MOBILE
 ELECTRONIC AND OPTICAL EQUIPMENT HAS BEEN OBSERVED AT THIS FACILITY AND IS REPORTED IN THE CHRONOLOGY
 PORTION OF THIS PAR.

25X1

25X1

225X1

NO COMMUNICATIONS OR INSTRUMENTATION FACILITIES OR ANTENNAS WERE IDENTIFIED WITHIN A 5-KILOMETER SEARCH
 RADIUS ABOUT THE KY/AUZY KUDOK TRACKING FACILITY.*

25X1

AF ENDR E6520-1-73 05 MAY 78 SEC CLASS: 13 MSN: 1P ACCN: S084364

KAMENSKOYE FLIGHT TEST CENTER AREA 1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 78-564.*

25X1

1757
 TOP SECRET CHESSE RUFF

TOP SECRET CHESS RUFF

25X1

AF ENDR E1011-1-78 21 JUN 78 SEC CLASS: 08B MSN: 1P ACCN: S084367
AIRCRAFT, COCK B AN-22
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO: 25X1
THIS DRAWING SUPERCEDES DRAWING 72E1008 AND SUPPLEMENTS PAR 78-005.*

AF ENDR C1012-78 06 JUN 78 SEC CLASS: 04 MSN: 1P ACCN: S084368
ELECTRONICS, ECM TRAILER SINGLE AXLE
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

AF ENDR C1013-78 07 JUN 78 SEC CLASS: 04 MSN: 1P ACCN: S084369
ELECTRONICS, ECM TRAILER FLAT-ROOFED TYPE 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

AF ENDR C1014-78 06 JUN 78 SEC CLASS: 04 MSN: 1P ACCN: S084370
ELECTRONICS, ECM TRAILER FLAT-ROOFED TYPE 2
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

AF ENDR C1015-78 09 JUN 78 SEC CLASS: 04 MSN: 1P ACCN: S084371
ELECTRONICS, ECM TRAILER PEAK-ROOFED TYPE 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

AF ENDR D3004-78 12 JUN 78 SEC CLASS: 05 MSN: 1P ACCN: S084372
AIRCRAFT, FOXBAT B MIG-25 VARIANTS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO: 25X1

AF ENDR D6519-78 04 MAY 78 SEC CLASS: 13 MSN: 1P ACCN: S084373 25X1
KIYEV AIRFRAME PLANT 473
WAC NO : 0233 BE/OBJ NO: NPIC NO : 502752N 0302329E
IDHS CODE: EPF CAT : 29-D COMIREX NO: 25X1

1758
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:

EPF CAT : 05G

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 78-601.*

AF ENDR E6520-78 05 MAY 78

SEC CLASS: 13 MSN:

1P

ACCN: 5084374

25X1

KAPUSTIN YAR MTC SRBM COMPLEX E SITE 1

WAC NO : 0235

BE/OBJ NO:

UR 484551N 0461753E

NPIC NO : - 10-A6

IDHS CODE:

EPF CAT : 40B

COMIREX NO:

25X1
25X15X1

THIS DRAWING SUPPLEMENTS PARS 78-603, 77-506, AND 76-607.*

25X1

1759

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IAPPR 146-78 13 JUN 78 SEC CLASS: 14 MSN: 10P ACCN: S08439725X1

MISSILES, SAM DEPLOYMENT OPERATIONS

WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40C	NPIC NO :
PEICHING CSA-1 SITE C03		COMIREX NO:
WAC NO : 0289	BE/OBJ NO:	CH 402110N 1164102E
IDHS CODE:	EPF CAT : 40C	NPIC NO : - 60-A
PEICHING CSA-1 SITE D11		COMIREX NO:
WAC NO : 0381	BE/OBJ NO:	CH 394818N 1170235E
IDHS CODE:	EPF CAT : 40C	NPIC NO : - 50-Z8
PEICHING CSA-1 SITE F23		COMIREX NO:
WAC NO : 0382	BE/OBJ NO:	CH 392158N 1153257E
IDHS CODE:	EPF CAT : 40C	NPIC NO : - 91-A2
WUHAN CSA-1 SITE F32		COMIREX NO:
WAC NO : 0494	BE/OBJ NO:	CH 311635N 1133720E
IDHS CODE:	EPF CAT : 40C	NPIC NO : - 62-C
NANCHING CSA-1 SITE C01		COMIREX NO:
WAC NO : 0386	BE/OBJ NO:	CH 322715N 1184930E
IDHS CODE:	EPF CAT : 40C	NPIC NO : - 84
		COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DURING THE LAST HALF OF 1977, EXTRA SURFACE-TO-AIR MISSILE BATTALIONS WERE OBSERVED AT ESTABLISHED SAM SITES IN THE VICINITY OF PEKING, WUHAN, AND NANCHING. A HIGHER UTILIZATION OF THE NATION'S LIMITED AIR-DEFENSE MISSILE FORCES WOULD DICTATE THAT THESE UNASSIGNED UNITS BE DISPERSED AT SEPARATE LOCATIONS THROUGHOUT THE AREA TO BE DEFENDED. THE MOVEMENTS OF THESE BATTALIONS OR THEIR EQUIPMENT INDICATE THAT THEIR PRESENCE AT ESTABLISHED OPERATIONAL SAM SITES IS TEMPORARY AND THAT THEY ARE AWAITING RELOCATION TO PERMANENT FACILITIES YET TO BE CONSTRUCTED. BY UTILIZING THE SUPPORT FACILITIES OF THE PERMANENT SITES, THE EXTRA BATTALIONS ARE ABLE TO MAINTAIN A HIGHER STATE OF READINESS THAN WOULD BE LIKELY UNDER FIELD-DEPLOYED CONDITIONS. THE EVENTUAL RELOCATION OF THESE UNASSIGNED UNITS TO THEIR OWN INSTALLATIONS WILL RAISE THE NUMBER OF OCCUPIED SAM SITES IN THE PRC FROM 77 TO BETWEEN 85 AND 92.

DIA STDY DST1830S-289-78 04 MAY 78 SEC CLASS: 25 MSN: 165P ACCN: S08439725X1

MISSILES, DEVELOPMENT + DESIGN RESOURCES

WAC NO :	BE/OBJ NO:	UR
IDHS CODE:	EPF CAT : 40E	NPIC NO :
		COMIREX NO:

THE PRIMARY PURPOSE OF THIS STUDY IS TO IDENTIFY, LOCATE, AND ASSESS THE RESOURCES OF THE USSR DESIGN

1764
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

BUREAUS RESPONSIBLE FOR MISSILE SYSTEM AND MAJOR SUBSYSTEM (PROPULSION) DESIGN/DEVELOPMENT WHICH ARE SUBORDINATE TO THE MINISTRY OF GENERAL MACHINE BUILDING (MOM), THE MINISTRY OF DEFENSE INDUSTRY (MOP), AND THE MINISTRY OF AVIATION INDUSTRY (MAP). A FALLOUT OF THIS STUDY IS A SUMMARY REVIEW OF THE PRODUCTS OF THESE DESIGN BUREAUS IN TERMS OF THE NUMBER AND TYPE OF MISSILE SYSTEMS, SPACE LAUNCH VEHICLES, AND SPACECRAFT DEVELOPMENTS WHICH HAVE OCCURRED SINCE THE INCEPTION OF THE SOVIET MISSILE PROGRAM. A SECONDARY PURPOSE IS TO DEFINE THE SOVIET MISSILE SYSTEM ACQUISITION PROCESS, DESCRIBE THE MISSILE DESIGNATOR SYSTEM, AND DEFINE THE PRODUCT INTEREST AND PROFESSIONAL STATURE OF EACH CHIEF DESIGNER. ALL OF THESE FACTORS ARE NECESSARY FOR AN OVERALL UNDERSTANDING OF THE SIGNIFICANT ORGANIZATIONAL AND OPERATIONAL FEATURES IN THE USE OF THESE KEY DESIGN/DEVELOPMENT RESOURCES. ALSO PRESENTED IS THE AVAILABLE EVIDENCE WHICH INDICATES FUTURE SYSTEM DEVELOPMENTS BASED ON ANALYSIS OF KEY DESIGN/DEVELOPMENT RESOURCE ACTIVITIES.

THE INFORMATION CUTOFF DATE IS 31 OCTOBER 1977.

DIA STDY DST1170R-396-78 MAR 78 [] SEC CLASS: 25 MSN: 30P ACCN: S084399 25X1

MILITARY, AAA AIR DEFENSE SUPPORT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:
MISSILES, SA-7/SA-9 AIR DEFENSE SUPPORT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40C COMIREX NO:

THE PURPOSE OF THIS REPORT IS TO ASSESS THE AVAILABILITY, PROBABILITY, AND THE INCREMENTAL EFFECTIVENESS AFFORDED BY THE USE OF SHORT RANGE TACTICAL AIR DEFENSE SYSTEMS AS AN ADJUNCT TO CURRENTLY DEPLOYED SOVIET STRATEGIC SURFACE-TO-AIR MISSILES. IN PARTICULAR, THE SA-7, SA-9, AND ANTI-AIRCRAFT ARTILLERY ARE CONSIDERED AS ADJUNCTS TO THE SA-2, SA-3, AND SA-5 SYSTEMS. INTELLIGENCE DATA ARE PRESENTED INDICATIVE OF CURRENT SOVIET ACTIVITY IN THIS AREA.

DIA STDY DST1070C-490-78 APR 78 [] SEC CLASS: 25A MSN: 20P ACCN: S084400 25X1

SARY SHAGAN MTC TEST ACTIVITY
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 2
IDHS CODE: EPF CAT : 40E COMIREX NO:

THIS REPORT IS PART OF A CONTINUING SERIES OF QUARTERLY REPORTS WHICH SUMMARIZE TEST ACTIVITIES AT THE SARY SHAGAN MISSILE TEST RANGE. THIS REPORT INCLUDES TABLES REFLECTING SIGNIFICANT MISSILE TEST ACTIVITY AND RADAR ACTIVITY OCCURRING AT THE MISSILE TEST RANGE []

DIA STDY DST1000S-294-78 03 MAY 78 [] SEC CLASS: 25 MSN: 43P ACCN: S084401 25X1

ELECTRONICS, SSM GUIDANCE + CONTROL SYSTEMS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

1765
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

ELECTRONICS, SSM GUIDANCE + CONTROL SYSTEMS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT SUPPLEMENTS THE BASIC STUDY, DST-10005-294-78, WHICH IS RESTRICTED TO SECRET LEVEL DATA. THE CONTENTS OF THIS STUDY SHOULD BE USED ALONG WITH THE BASIC STUDY, EVIDENCE FOR THE FOLLOWING CONCLUSIONS IS PRESENTED: THE SS-11 MOD 4 USES THE SAME GUIDANCE SYSTEM AS THE SS-11 MOD 2/3. A TOTAL MOD 4 PITCH PROGRAM IS PROVIDED.

THE SS-17 COMPUTER INITIALIZATION TIME IS 3 SECONDS PRIOR TO LAUNCH. THIS IS PROBABLY ALSO "GO-INERTIAL" TIME.

THE SS-17 COMPUTER COORDINATE SYSTEM USES A POLAR RADIUS AND IS OFFSET 20.57 KM NORTH AND 3.33 KM WEST FROM THE LAUNCH SITE. THE LARGE WESTERLY OFFSET IS NOT PRESENTLY EXPLAINABLE BY THE ORIGIN OFFSET THEORY PROPOSED FOR THE SS-17.

THE SS-17 USES AN OBLATE EARTH GRAVITY MODEL. NO AZIMUTH MARKERS ARE NOTED AT NEW SITES BUILT SPECIFICALLY FOR THE SS-16, SS-17, SS-18, OR SS-19. THE ABSENCE OF AZIMUTH MARKERS SUGGESTS THE USE OF SOME FORM OF GYROCOMPASSING FOR INERTIAL PLATFORM ALIGNMENT OF THESE SYSTEMS.

PROBABLE AZIMUTH MARKERS ARE NOTED AT SS-20 MOBILE BASES. ALTHOUGH GYROCOMPASSING MAY BE USED FOR AZIMUTH ALIGNMENT, AZIMUTH MARKERS ARE EXPECTED TO BE EMPLOYED FOR BACKUP ALIGNMENT.

THE TREND IN RANGE INSTRUMENTATION OF INCREASING CAPABILITY FOR MAKING HIGHLY ACCURATE TRAJECTORY AND IMPACT MEASUREMENTS SUGGESTS THAT THE SOVIETS INTEND TO CONTINUE TO IMPROVE AND EFFECTIVELY EVALUATE GUIDANCE SYSTEM ACCURACY.

NEW IMPACT AREA INSTRUMENTATION CONFIGURATIONS SUGGEST POSSIBLE FUTURE TESTS OF MANEUVERABLE REENTRY VEHICLES.

DIA STDY DST17105-516-78 30 JUN 78 SEC CLASS: 14 MSN: 68P ACCN: S08440225X1

ELECTRONICS, SH-EL-1 LOW-ALT ACQUISITION RDR UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

THE PURPOSE OF THIS STUDY IS TO PRESENT A PRELIMINARY ANALYSIS OF THE CHARACTERISTICS AND PERFORMANCE OF THE NEW SOVIET LOW-ALTITUDE SURVEILLANCE RADAR WITH THE NPIC DESIGNATION SH-EL-01 (INFORMALLY TERMED CLAM SHELL) UNDER DEVELOPMENT AT COMPLEX G OF THE SARY SHAGAN MISSILE TEST CENTER (SSMTC). THIS ANALYSIS IS NEEDED TO ASSESS THE IMPACT OF THIS RADAR ON ELECTRONIC WARFARE PLANNING AND TO SUPPORT ANALYSIS OF THE NEW SURFACE-TO-AIR MISSILE (SAM) SYSTEM THAT IS ALSO UNDER DEVELOPMENT AT COMPLEX G.

DIA IAPPR 149-78 15 JUN 78 SEC CLASS: 24 MSN: 10P ACCN: S08440325X1

MISSILES, CSS-3 SOFT SITE DEPLOYMENT FACILS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:
TANCHOU SSM SITE POSS CSS-3 TRANSPORTERS POSS CH 2520 N 10925 E

1766
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0497	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 40A	COMIREX NO:
SUNTEN SSM SITE 1 CSS-3 TRANSPORTERS	BE/OBJ NO: []	CH 334723N 1115926E
WAC NO : 0385	EPF CAT : 40A	NPIC NO : - 125-A
IDHS CODE: []	COMIREX NO: []	25X1
KUNMING SSM FIELD POSITION 1	CSS-3 DPL POSS	CH 245208N 1025347E
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 4-B1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO: []
CHIUMENGCHIN SSM FIELD POSITION	CSS-3 CPBL	CH 344809N 1124025E
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-A1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DESIRE TO INCREASE THE SIZE OF THEIR CSS-3 FORCE WITHOUT THE EXPENSE OF SILO CONSTRUCTION AND CONCERN THAT CSS-3 SILOS MAY BE DESTROYED BEFORE THEIR FULL REFIRE CAPABILITY IS EXECUTED MAY HAVE PERSUADED THE CHINESE TO PLAN CONCURRENT DEPLOYMENT TO SOFT SITES. RECENT PHOTOGRAPHS OF TRANSPORTERS AT SEVERAL CSS-3 ICBM FACILITIES HAVE PROVIDED ADDITIONAL EVIDENCE THAT THE CSS-3 WILL BE DEPLOYED TO SOFT SITES AND THAT CSS-3 SILOS HAVE A REFIRE CAPABILITY. IN ADDITION, MODIFICATION OF THE KUNMING LAUNCH POSITION INDICATES A POSSIBLE NEW AREA OF CSS-3 DEPLOYMENT.

DIA STDY DDB2680-023A-78

MAY 78

SEC CLASS: 25

MSN:

46P

ACCN: S084404

25X1

MISSILES, DEVELOPMENTS

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 40

COMIREX NO:

MILITARY, DEVELOPMENTS

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 35

COMIREX NO:

NAVAL, DEVELOPMENTS

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 75

COMIREX NO:

AIRCRAFT, DEVELOPMENTS

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 05

COMIREX NO:

ELECTRONICS, DEVELOPMENTS

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 25

COMIREX NO:

DIA IAPPR

142-78

09 JUN 78

SEC CLASS: 24

MSN:

15P

ACCN: S084405

25X1

MISSILES, R+D/PRODUCTION FACILITIES

WAC NO :

BE/OBJ NO:

CH

NPIC NO :

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

1767

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1

PEKING'S EFFORTS TO CONSTRUCT A RESEARCH AND DEVELOPMENT AND PRODUCTION BASE TO SUPPORT ITS MISSILE INDUSTRY INDICATE A LONG-TERM COMMITMENT TO THE DEVELOPMENT AND MANUFACTURE OF MORE ADVANCED WEAPONRY. THE SIZE AND VARIETY OF THE FACILITIES UNDER CONSTRUCTION PROVIDE CHINA WITH THE OPTION TO PURSUE A WIDE RANGE OF BOTH SOLID- AND LIQUID-PROPELLANT SYSTEMS AND ALSO SUGGEST AT LEAST AN INTENT FOR LARGER SCALE DEPLOYMENT IN THE LONG TERM.

WITH THE CONSTRUCTION OF THIS EXTENSIVE INDUSTRIAL BASE, HOWEVER, A CRITICAL DIVERGENCE OR PARADOX HAS EMERGED: CHINA'S CAPACITY IN TERMS OF FLOORSPACE TO PRODUCE MISSILE SYSTEMS HAS GREATLY OUTPACED PRESENT ESTIMATED LEVELS OF PRODUCTION AND DEPLOYMENT.

DIA STDY DDB1923-002-78

MAY 78

SEC CLASS: 25 X MSN:

95P

ACCN: S08440725X1

AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 05G
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	CH
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	CZ
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	PL
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	RO
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	YO
AIRCRAFT, PRODUCTION JULY - DECEMBER 1977	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	

AIRCRAFT OUTPUT IN THE USSR DURING 1977 EXPERIENCED A 12 PERCENT DROP FROM THE PREVIOUS YEAR. IT RESULTED PRIMARILY FROM A SHARP DECLINE IN THE MI-8/HIP HELICOPTER PROGRAM, ALTHOUGH HIP IS STILL PRODUCED AT A SUBSTANTIAL RATE. PRODUCTION OF FIGHTERS AND HELICOPTERS CONTINUES TO DOMINATE TOTAL OUTPUT.

DURING 1977 THE SOVIETS PRODUCED 2,775 AIRCRAFT, THE FIRST TIME SINCE 1973 THAT OUTPUT HAS FALLEN BELOW THE 3,000 LEVEL. THESE INCLUDED 36 BOMBERS, 1,100 FIGHTERS AND FIGHTER-BOMBERS, 425 TRANSPORTS, 1,100 HELICOPTERS, 40 TRAINERS, AND 80 SMALL UTILITY AIRCRAFT.

THE EASTERN EUROPEAN COMMUNIST COUNTRIES (EECC) PRODUCED SOME 1,250 AIRCRAFT DURING 1977, EXCLUDING LIGHT COMMUNICATIONS/UTILITY AIRCRAFT. THIS WAS A SLIGHT DECREASE OVER 1976 LEVELS, WHEN 1,300 AIRCRAFT WERE PRODUCED. OUTPUT CONSISTED LARGELY OF LIGHT TRANSPORTS AND HELICOPTERS, FOLLOWED BY JET TRAINERS. HIGHER OUTPUT OVER THE LAST 5 YEARS WAS REVEALED FOR BOTH THE CZECHOSLOVAK L-39/ALBATROS ADVANCED JET TRAINER AND THE POLISH MI-2/HOPLITE LIGHT HELICOPTER.

AIRCRAFT PRODUCTION IN THE PEOPLES REPUBLIC OF CHINA (PRC) DURING 1977 IS ESTIMATED TO TOTAL ABOUT 350 AIRCRAFT, COMPARED TO ABOUT 400 DURING 1976. THIS TOTAL REPRESENTS THE ANNUAL AVERAGE SINCE 1972. THE

1768
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

MAJORITY OF CURRENT OUTPUT STILL CONSISTS OF OLDER SOVIET-DESIGNED SYSTEMS, ALTHOUGH A NEW CHINESE-DESIGNED TRANSPORT, THE CHAN A, ENTERED SERIES PRODUCTION DURING 1977. PRODUCTION DURING 1977 CONSISTED LARGELY OF FIGHTER AIRCRAFT (225), PRIMARILY THE MIG-19/FARMER (175). IN ADDITION, SOME 60 BOMBERS, 50 HELICOPTERS, AND 10 TRANSPORTS WERE PRODUCED.

DIA STDY DDB1923-004-78 MAY 78 SEC CLASS: 24 MSN: 97P ACCN: S084408 25X1

MISSILES, PRODUCTION SUMMARY	JULY - DEC 1977	UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, PRODUCTION SUMMARY	JULY - DEC 1977	CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, PRODUCTION SUMMARY	JULY - DEC 1977	CZ
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, PRODUCTION SUMMARY	JULY - DEC 1977	YO
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:

THIS IS THE TWENTY-FIFTH ISSUE OF THE SEMIANNUAL PUBLICATION FOREIGN MISSILE PRODUCTION (FOMP) -COMMUNIST WORLD. ONLY NEW INFORMATION AND ANALYSIS ARE INCLUDED IN THIS ISSUE, COVERING THE PERIOD JULY THROUGH DECEMBER 1977 WITH AN INFORMATION CUTOFF DATE OF 1 JANUARY 1978.

25X1

CIA INFR ERD063-78 30 JUN 78 SEC CLASS: 13 MSN: 2P ACCN: S084410 25X1

INDUSTRY, CHLORINE PLANTS SALT FEEDSTOCK UR

1769
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:
USOLYE SIBIRSKOYE CHEMICAL PLT SALT FEEDSTOCK UR 524652N 1033632E
WAC NO : 0200 BE/OBJ NO: NPIC NO : - 11-B
IDHS CODE: EPF CAT : 30F COMIREX NO:
ZIMA ELECTROCHEMICAL COMBINE SALT FEEDSTOCK UR 540123N 1020112E
WAC NO : 0200 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:

YAVAN CHLORINE PLANT SEARCH UR 3822 N 06900 E
WAC NO : 0336 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:

IDHS CODE: EPF CAT : 13F COMIREX NO:
KALUSH CHEMICAL COMBINE SALT FEEDSTOCK UR 490432N 0241812E
WAC NO : 0232 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:
NOVOMOSKOVSK CHEMICAL COMBINE SALT FEEDSTOCK UR 540521N 0381356E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:
BRATSK CHLORINE PLANT SEARCH UR 5645 N 10142 E
WAC NO : 0127 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:

NPIC MEMO

23 JUN 78

SEC CLASS: 13

MSN:

2P

ACCN: S08441

PITSUN COMSAT STATION DOMESTIC NEW SEARCH

CH 2322 N 11306 E

1770
TOP SECRET CHESS RUFF

25X1
25X1

25X1
25X1

25X1
25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0614
IDHS CODE: [REDACTED]
PITSUN COMSAT STATION DOMESTIC
WAC NO : 0614
IDHS CODE: [REDACTED]
BE/OBJ NO: [REDACTED]
EPF CAT : 25C
NPIC NO : [REDACTED]
COMIREX NO: [REDACTED]
CH 232235N 1130622E
NPIC NO : - 27-C1
COMIREX NO: [REDACTED]

25X1
25X1
25X1
25X1

1771
TOP SECRET CHESS RUFF

25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

[REDACTED] 25X1

DOD STDY PIC2600-006-78 MAR 78 [REDACTED] SEC CLASS: 21MX MSN: 48P ACCN: S08441725X1

MILITARY, TRAINING EXERCISE		KN
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35B	COMIREX NO:
PYONGYANG MANEUVER AREA SE MILITARY EXERCISE		KN 385650N 1255400E
WAC NO : 0380	BE/OBJ NO: [REDACTED]	NPIC NO : - 11-K4
IDHS CODE: [REDACTED]	EPF CAT : 35B	COMIREX NO: [REDACTED]
KANGDONG MILITARY TRAINING AREA MILITARY EXER		KN 3904 N 12605 E
WAC NO : 0380	BE/OBJ NO:	NPIC NO :
IDHS CODE: [REDACTED]	EPF CAT : 35B	COMIREX NO:

25X1
25X1

25X1

THIS STUDY IS A DETAILED EVALUATION OF A NORTH KOREAN MILITARY EXERCISE. IT PROVIDES AN INSIGHT INTO A PROBABLE NORTH KOREAN ASSAULT SCENARIO.*

[REDACTED] 25X1

25X1

TOP SECRET CHSS RUFF

25X1
25X1

25X1

DIA IAPPR 71-78 16 MAR 78

SEC CLASS: 24

MSN:

30P

ACCN: 5084423

25X1

MISSILES, SSM DEVELOPMENTS 1977

WAC NO. :
IDHS CODE:BE/OBJ NO:
EPF CAT : 40CH
NPIC NO. :
COMIREX NO:

DURING 1977, THE CHINESE SURFACE-TO-SURFACE MISSILE AND RELATED PROGRAMS DEMONSTRATED UNUSUAL VITALITY AND UNPRECEDENTED ACTIVITY COMPARED TO PREVIOUS YEARS. SEMIMOBILE SSM UNITS DISPLAYED THEIR OPERATIONAL READINESS BY CONDUCTING CSS-1/CSS-2 FIRINGS UNDER SIMULATED COMBAT CONDITIONS AND BY PERFORMING EXTENDED-TRAINING EXERCISES IN ADVERSE WEATHER. THERE WAS ALSO THE DISCOVERY OF A CONTROL/MONITORING VAN AT SSM FIELD EXERCISES, CONFIRMING A HIGH DEGREE OF TARGETING FLEXIBILITY BY DEPLOYED SSM UNITS. MEANWHILE, THERE WAS A CSS-3 FIRING TOWARD A NEW IMPACT AREA IN WEST CHINA, EVIDENCE OF A PROBABLE REFIRED CAPABILITY FOR THE TWO DEPLOYED CSS-3 SILOS, AND INITIAL EVIDENCE OF FORTHCOMING CSS-3 SOFT-SITE DEPLOYMENT. THE CSS-X-4 PROGRAM WITNESSED SIMILAR VITALITY WITH A PROBABLE BALLISTIC FIRING -- THE FIRST IN OVER FOUR YEARS -- AND THE RAPID CONSTRUCTION OF TWO TITAN II-LIKE SILOS FOR THIS FULL-RANGE INTER-CONTINENTAL BALLISTIC MISSILE. RENEWED ACTIVITY IN THE CHINESE SUBMARINE-LAUNCHED BALLISTIC MISSILE PROGRAM WAS EVIDENT IN BOTH EJECTION SYSTEM DEVELOPMENT AND PREPARATIONS FOR LAND-BASED FLIGHT TESTS AT THE WUCHAI MISSILE TEST CENTER. FINALLY, AT THE THREE ACTIVE MISSILE TEST CENTERS -- WUCHAI, CHINGYU, AND SHUANGCHENG TZU -- MAJOR CAPITAL CONSTRUCTION PROJECTS WERE IN PROGRESS, INDICATING AN ACTIVE STRATEGIC MISSILE RESEARCH AND DEVELOPMENT PROGRAM.

25X1

NPIC REPT

STAR03-78 01 JUN 78

SEC CLASS: 14

MSN:

17P

ACCN: 5084425

25X1

1773
TOP SECRET CHSS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

ARMY PIM PIM046-78 06 JUN 78 SEC CLASS: 14E MSN: 4P ACCN: 508442725X1

CHUCHIAWAN RADIO RELAY STATION BUNKERED CH 303213N 1142451E
WAC NO : 0493 BE/OBJ NO: NPIC NO : - 36-A2
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF CHU-CHIA-WAN RADREL STA/BNK, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE, AND ORIENTATIONS IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF THE FACILITY, AND ITS GEOGRAPHIC LOCATION.

ARMY PIM PIM047-78 06 JUN 78 SEC CLASS: 14E MSN: 4P ACCN: 508442725X1

NANCHANG RADIO RELAY TERMINAL CH 284027N 1155357E
WAC NO : 0493 BE/OBJ NO: NPIC NO : - 25-D2
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF NAN-CHANG RADREL TERMINAL, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE BUILDING, SIZE, AND ORIENTATION IN DEGREES OF THE ANTENNA, ELEVATION OF THE FACILITY AND ITS GEOGRAPHIC LOCATION.

1774
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ARMY PIM PIM048-78 06 JUN 78 SEC CLASS: 14E MSN: 4P ACCN: S084429 25X1
 CHUNGHUA RADIO RELAY STATION CH 270830N 1171130E
 WAC NO : 0498 BE/OBJ NO: NPIC NO : - 148 25X1
 IDHS CODE: EPF CAT : 250 COMIREX NO: 25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF CHUNG-HUA RADREL STA, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE COMBINED CONTROL AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNA ENVIRONMENTAL SHELTERS, ELEVATION OF THE STATION, AND ITS GEOGRAPHIC LOCATION.

25X1

NPIC TP 7-78 JUN 78 SEC CLASS: 05C MSN: 21P ACCN: S084432
 PHOTO, MKF-6 CAMERA SYSTEM UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 65 COMIREX NO:

THE MKF-6 CAMERA SYSTEM IS A SIX-CAMERA, SIX-LENS MULTISPECTRAL SYSTEM WITH NARROW-BAND FILTERS ON EACH LENS TO PROVIDE PHOTOS OF DIFFERENT SPECTRAL REGIONS OF THE ELECTROMAGNETIC SPECTRUM. A LIST OF PERTINENT DATA ON THE MKF-6 CAMERA SYSTEM IS PROVIDED.*

25X1

1775
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY DSIIR RAC24-3002-78

APR 78

SEC CLASS: 14B MSN:

26P

ACCN: 508443425X1

KALININGRAD MILITARY TRAINING AREA

WAC NO : 0169

BE/OBJ NO:

UR 544600N 0203100E

NPIC NO : - 58-B

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

KALININGRAD ARMY BARRACKS AL7 + HQ MRD

WAC NO : 0169

BE/OBJ NO:

UR 544058N 0203327E

NPIC NO : - 59-N

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

KORNEVO ARMY TRAINING AREA 1

WAC NO : 0169

BE/OBJ NO:

UR 542700N 0202100E

NPIC NO : - 57-Y1

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

KORNEVO ARMY BARRACKS AL1

WAC NO : 0169

BE/OBJ NO:

UR 542711N 0201900E

NPIC NO : - 57-Y

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

KUTUZOVO ARMY TRAINING AREA 1

WAC NO : 0168

BE/OBJ NO:

UR 544717N 0224216E

NPIC NO : - 179

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

SOVETSK ARMY BARRACKS AL2/HQ GUARDS TANK DIV

WAC NO : 0168

BE/OBJ NO:

UR 553600N 0211240E

NPIC NO : - 33-J

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

DOBELE ARMY BARRACKS + TANK DIVISION

WAC NO : 0153

BE/OBJ NO:

UR 563807N 0231651E

NPIC NO : - 165

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

SIAULIAI MILITARY TRAINING AREA

WAC NO : 0153

BE/OBJ NO:

UR 560321N 0232048E

NPIC NO : - 171-A2

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1776

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

25X1

NPIC MEMO 18 MAY 78 SEC CLASS: 25 MSN: 3P ACCN: S084436 25X1

LOURDES MILITARY CAMP/VEHICLE PARK ANT MSRMTS

WAC NO : 0586 BE/OBJ NO: []

IDHS CODE: [] EPF CAT : 35A

CU 225920N 0822803W

NPIC NO : - 458-A1

COMIREX NO: []

LOURDES MILITARY CAMP/VEHICLE PARK ANT MSRMTS

WAC NO : 0586 BE/OBJ NO: []

IDHS CODE: [] EPF CAT : 35F

CU 225920N 0822803W

NPIC NO : - 458-A1

COMIREX NO: []

LOURDES MILITARY CAMP/VEHICLE PARK ANT MSRMTS

WAC NO : 0586 BE/OBJ NO: []

IDHS CODE: [] EPF CAT : 25

CU 225920N 0822803W

NPIC NO : - 458-A1

COMIREX NO: []

ARMY PIM PIM044-78 01 JUN 78 SEC CLASS: 14E MSN: [] 4P

ACCN: S084437 25X1

WUCHOU RADIO RELAY STATION

WAC NO : 0615 BE/OBJ NO: []

IDHS CODE: [] EPF CAT : 25D

CH 232914N 1111959E

NPIC NO : - 21-C1

COMIREX NO: []

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF WU-CHOU RADREL STA, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNAS, ELEVATION OF THE STATION, AND ITS GEOGRAPHIC LOCATION.

1777
TOP SECRET CHESSE RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA05-0007-77

JUL 78

SEC CLASS: 14B MSN:

17P

ACCN: 5084442

25X1

MOSKVA/SHCHELKOVO AIRFIELD

WAC NO : 0167

BE/OBJ NO:

UR 555310N 0380340E

IDHS CODE:

EPF CAT : 05A

NPIC NO : - 51

MOSKVA/SHCHELKOVO AIRFIELD GCA SITE

COMIREX NO: 555348N 0380304E

WAC NO : 0167

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 25H

COMIREX NO:

MOSKVA/SHCHELKOVO AIRFIELD EW RADAR SITE

UR 555328N 0380236E

WAC NO : 0167

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 25H

COMIREX NO:

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF MOSCOW/SHCHELKOVO AIRFIELD AND ASSOCIATED FACILITIES DURING THE REPORTING PERIOD FEBRUARY 1972 THROUGH SEPTEMBER 1976. THE AIRFIELD, IN WEST-EUROPEAN U.S.S.R., SUPPORTS TRANSPORT AIRCRAFT. SIGNIFICANT CHANGES DURING THE PERIOD INCLUDED THE CONSTRUCTION OF THREE BARRACKS, EIGHT STORAGE BUILDINGS, ONE ADMINISTRATION BUILDING AND TWO WORKSHOPS, ENLARGEMENT OF AN AIRCRAFT PARKING APRON, THE ADDITION OF ONE PARKING APRON, AND ENLARGEMENT OF THE POL STORAGE CAPACITY. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 3,480M X 100M CONCRETE RUNWAY, A SOD RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH A TOTAL ESTIMATED CAPACITY OF 31,085,510 LITERS, AIRCRAFT MAINTENANCE, ORDNANCE, ACCOMMODATIONS, STORAGE, AND TRANSPORTATION. AOB [REDACTED] INCLUDED 5 FISHBED, 1 COCK, 1 CLASSIC, 4 CRUSTY, 7 COOKPOT, 14 CUB, 20 COKE/CURL, 12 COOT, 9 CRATE, 2 SMALL STRAIGHT WING AIRCRAFT, 2 HOOK, 2 HIND, AND 5 HIP. INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES ONE MAP, 11 ANNOTATED PHOTOGRAPHS, TABLES, AND A CHRONOLOGY. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

25X1

25X1

1779
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Large Redacted Block]

25X1

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NPIC B1IR RCA17-0004-78
FEODOSIYA NAVAL MTC

JUL 78

[Redacted]

SEC CLASS: 25B MSN:

[Redacted]

4P

ACCN: S08444

25X1

UR 445115N 0350805E

1780
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0249

IDHS CODE:

BE/OBJ NO:

EPF CAT : 406

NPIC NO :

- 65-A6

COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES INFORMATION ON FEODOSIYA NAVAL MISSILE TEST FACILITY, USSR, OBTAINED FROM USABLE IMAGERY ACQUIRED FROM JUNE 1977 THROUGH MAY 1978 AND UPDATES NPIC REPORT [REDACTED] AN SS-N-14 TEST PROGRAM IS STILL ONGOING AND TESTING OF A NEW POSSIBLE SMALL WEAPON SYSTEM MAY HAVE BEGUN.

25X1

A LOCATION MAP AND ONE ANNOTATED PHOTOGRAPH ARE INCLUDED IN THIS REPORT.

25X1

1781

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-58778-78 02 AUG 78

SEC CLASS: 14B

MSN:

2P

ACCN: S084450

25X1

25X1

ELECTRONICS, STRAIGHT FLUSH RADARS DEPLOYED

CZ

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 25A

COMIREX NO:

25X1

25X1

1783
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 581-58597-78 29 JUN 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: 5084452 25X1
LENINGRAD AVTOKOLONNA 1107 UR 595421N 0302415E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: 25X1

CIA IRP 1510099K-78 JUN 78 [] SEC CLASS: 13 MSN: 34P ACCN: 5084456 25X1
MILITARY, ARTILLERY UNITS NONDIVISIONAL EXPNSN UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF A DETAILED PHOTOGRAPHIC STUDY OF SOVIET GROUND FORCE NONDIVISIONAL ARTILLERY UNITS. IT WAS PREPARED TO IMPROVE THE INTELLIGENCE COMMUNITY'S UNDERSTANDING OF RECENT SOVIET EFFORTS TO EXPAND AND IMPROVE THE QUALITY OF THESE GROUND FORCES. ALTHOUGH THE ANALYSIS IS DERIVED PRIMARILY FROM IMAGERY, IT PROVIDES A BASIS UPON WHICH ALL-SOURCE ANALYSIS CAN BE ACCOMPLISHED.

CIA IRA 1510098J-78 JUN 78 [] SEC CLASS: 24 MSN: 41P ACCN: 5084452 25X1
MILITARY, ARMORED UNITS ORGANIZATION/IDENT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, T-34 TANK SOVIET CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:
MILITARY, TYPE-59 TANK CH
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35E COMIREX NO:
MILITARY, TYPE-62 LIGHT TANK CH
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35E COMIREX NO:
MILITARY, TYPE-60/63 TANK CH
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35E COMIREX NO:
MILITARY, PT-76 TANK SOVIET CH
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35E COMIREX NO:

1784
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
ZUN

MILITARY, M-1967 APC
 WAC NO : BE/OBJ NO: CH
 IDHS CODE: EPF CAT : 35E NPIC NO :
 MILITARY, SU-76 ASSAULT GUN SOVIET COMIREX NO:
 WAC NO : BE/OBJ NO: CH
 IDHS CODE: EPF CAT : 35E NPIC NO :
 MILITARY, TYPE-59 ARV CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

SINCE THE EARLY 1970S, THE CHINESE HAVE GRADUALLY, BUT SUBSTANTIALLY, EXPANDED AND UPGRADED THEIR ARMORED FORCES. THE MILITARY REGIONS CLOSEST TO THE SINO-SOVIET BORDER WERE THE FIRST TO EXPAND AND UPGRADE THEIR ARMORED UNITS; NOW THE IMPROVEMENTS ARE BEING NOTED IN OTHER, LOWER-PRIORITY AREAS. THE FOLLOWING ARMORED FORCE IMPROVEMENTS HAVE BEEN NOTED:

--AN INCREASE IN THE NUMBER OF TANK REGIMENTS --AN INCREASE IN THE NUMBER OF TANKS WITHIN REGIMENTS --THE REPLACEMENT OF T-34 TANKS WITH TYPE 59 TANKS IN SOME REGIMENTS --AN INCREASE IN THE NUMBER OF ARMORED PERSONNEL CARRIERS IN ARMORED UNITS --THE UPGRADING OF MOST TANK/ASSAULT GUN REGIMENTS TO TANK REGIMENTS --A SUBSTANTIAL IMPROVEMENT IN THE CAPABILITIES OF SUPPORT AND COMBAT SUPPORT UNITS --THE FORMATION OF AT LEAST ONE MECHANIZED INFANTRY REGIMENT. THIS REPORT INCLUDES A DISCUSSION OF THE CHANGES TO THE ARMORED FORCES SINCE 1970 AND PRESENTS THEIR CURRENT ORGANIZATIONS AND EQUIPMENT HOLDINGS. IT DOES NOT DISCUSS ORDER OF BATTLE OR UNIT LOCATIONS. THE REPORT IS PRESENTED IN TWO SECTIONS. THE FIRST DESCRIBES THE ORGANIZATION, MAJOR EQUIPMENT HOLDINGS, AND IMPROVEMENTS AND MODERNIZATION TRENDS OF CHINESE ARMORED UNITS. IT INCLUDES AN ANNOTATED PHOTOGRAPH AND A BRIEF DESCRIPTION OF EACH OF THE MAJOR TYPES OF CHINESE ARMORED UNITS AND THEIR SUPPORT UNITS. IT ALSO INCLUDES AN ORGANIZATIONAL DIAGRAM OF AN ARMORED DIVISION, A TANK REGIMENT, A TANK/ASSAULT GUN REGIMENT, AND A MECHANIZED INFANTRY REGIMENT. THE SECOND SECTION OF THIS REPORT IS A PHOTO RECOGNITION KEY OF ARMORED VEHICLES COMMONLY SEEN IN CHINA.

IN PREPARING THIS REPORT, ALL 10 KNOWN ARMORED DIVISIONS AND MANY OTHER ARMORED UNITS WERE EXAMINED ON SATELLITE IMAGERY OBTAINED OVER THE LAST SEVEN YEARS. THE ORGANIZATIONAL DIAGRAMS AND EQUIPMENT HOLDINGS PRESENTED ARE BASED ON REPEATED EQUIPMENT SIGHTINGS, VEHICLE STORAGE CAPACITIES, AND VEHICLE PARKING PATTERNS.

NPIC PIR PIR033-78 JUL 78 SEC CLASS: 14 MSN: 4P

25X1
ACCN: S084458

MISSILES, SAM SITES PORT ASSOCIATED SY
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:
 NAVAL, PORT FACILITIES SAM SITES SY
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75I COMIREX NO:

SINCE THE SUMMER OF 1976, THE SYRIAN AIR DEFENSE COMMAND HAS CONSTRUCTED SURFACE-TO-AIR MISSILE (SAM) RINGS AROUND MAJOR SYRIAN SEAPORTS AND OIL FACILITIES ON THE MEDITERRANEAN SEA. DEFENSIVE MISSILE RINGS HAVE BEEN BUILT AROUND THE PORTS OF TARTUS AND AL LADHIQIYAH AND A NEW RING IS UNDER CONSTRUCTION TO

25X1

1785
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

PROTECT THE OIL REFINERY, STORAGE, AND PORT FACILITIES AT BANIYAS.
 TO DATE, TWO NEW SAM BRIGADES-THE 37TH SAM BRIGADE AT TARTUS AND THE 71ST SAM BRIGADE AT AL LADHIQIYAH
 HAVE BEEN IDENTIFIED IN THIS AREA.
 DEFENSIVE MISSILE FACILITIES WHICH HAVE BEEN IDENTIFIED INCLUDE ONE SAM BRIGADE HEADQUARTERS, TWO SA-2
 SAM SUPPORT FACILITIES, TWO SA-3 SAM SUPPORT FACILITIES, SIX OCCUPIED SA-2 SAM SITES, FIVE SA-3 SAM SITES,
 ONE UNOCCUPIED SAM SITE, AND NINE SAM SITES UNDER CONSTRUCTION.
 DEFENSIVE MISSILE FACILITIES ARE LISTED.

NPIC IIR IIR045-78 11 JUL 78 [] SEC CLASS: 14B MSN: [] 3P

ACCN: 508445625X1

SZCZECINEK ARMY BKS 204 SA-6 EQUIP/REGT IDENT PL 534208N 0164244E
 WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 231-A
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
 SZCZECINEK ARMY BKS 204 SA-6 EQUIP/REGT IDENT PL 534208N 0164244E
 WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 231-A
 IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1

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25X1

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[] SA-6 MISSILE EQUIPMENT WAS OBSERVED FOR THE FIRST TIME AT SZCZECINEK ARMY
 BARRACKS 204, POLAND. THIS IS THE FIRST IDENTIFICATION OF AN SA-6 REGIMENT IN THE SOVIET NORTHERN GROUP OF
 FORCES, POLAND.

NPIC PIR PIR032-78 JUL 78 [] SEC CLASS: 25B MSN: [] 6P

ACCN: 508446125X1

ELECTRONICS, COMMAND CONTROL COMMO FACILS LRA UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 25H COMIREX NO:

CONTINUING ANALYSIS OF SOVIET BUNKERED COMMAND AND CONTROL FACILITIES HAS REVEALED AN UNUSUAL BUNKER
 ROOF FEATURE AT SEVEN OF THESE FACILITIES. SIX OF THE SEVEN FACILITIES ARE POSSIBLY ASSOCIATED WITH THE
 SOVIET LONG RANGE AVIATION (LRA), INASMUCH AS EACH IS WITHIN 8 TO 11 NAUTICAL MILES (NM) OF A REPORTED LRA
 HEADQUARTERS. THE SEVENTH FACILITY IS 62 NM NORTHEAST OF MOSCOW. THE UNUSUAL FEATURE OF THESE SEVEN
 BUNKERS IS A LINEAR STRUCTURE EXTENDING DIAGONALLY ACROSS THE ROOF. THE LINEAR STRUCTURE MAY BE A CONDUIT
 FOR FEEDLINES FROM THE BUNKER TO HARDENED ANTENNAS.

DIA BIIR RDA11-0018-77 JUL 78 [] SEC CLASS: 14B MSN: [] 12P

ACCN: 508446125X1

LENINGRAD TANK TESTING AREA UR 594632N 0301025E
 WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 161-A
 IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF LENINGRAD TANK TESTING AREA WHICH IS 19 KM
 SOUTHWEST OF LENINGRAD, USSR. THIS UNIQUE, SPECIAL-PURPOSE TESTING COMPLEX TESTS ARMORED VEHICLES. ALSO,
 IT INCLUDES FACILITIES FOR DESIGNING, ENGINEERING, AND LIMITED FABRICATION, BUT HAS NO ASSOCIATED

1786
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

PRODUCTION FACILITIES. THE MAJOR TESTING FACILITIES INCLUDE A 4,632-METER GRADED-EARTH, OVAL TEST TRACK; A 1,409-METER GRADED-EARTH ACCELERATION TEST TRACK; A FORDING BASIN; AND TWO PROBABLE SIGHT ALIGNMENT RANGES. THE TEST FACILITY COVERS APPROXIMATELY 121.5 HECTARES AND HAS A TOTAL ROOF COVER OF 130,070 SQUARE METERS. THE WIDESPREAD CONSTRUCTION OF MULTISTORY ADMINISTRATION AND ENGINEERING BUILDINGS IS INDICATIVE OF A MAJOR FUNCTIONAL CHANGE AT THIS FACILITY. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, FIVE ANNOTATED PHOTOGRAPHS, AND FOUR TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND DOCUMENTARY SOURCES.

25X1

NPIC IIR IIR043-78 03 JUL 78

SEC CLASS: 14B MSN:

3P

ACCN: S084464

MOSKVA/LYUBERTSY AIRFIELD HALO HELICOPTER

UR 554105N 0375120E

WAC NO : 0167

BE/OBJ NO:

NPIC NO :

- 46-E

IHHS CODE:

EPF CAT : 05A

COMIREX NO:

AIRCRAFT, HALO HEAVY-LIFT HELICOPTER NEW

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

1787

TOP SECRET CHESS RUFF

25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

IDHS CODE: EPF CAT : 05D COMIREX NO:

THE NEW SOVIET HEAVY-LIFT HELICOPTER, THE HALO, WAS SEEN [REDACTED] AT MOSCOW/LYUBERTSY AIRFIELD, USSR. [REDACTED]

25X1

25X1

25X1

A DESCRIPTION AND DIMENSIONS OF THE HALO ARE INCLUDED IN THIS REPORT. THE SIZE AND CONFIGURATION OF THE HALO RESEMBLE THOSE OF THE HOOK HELICOPTER.*

25X1

CIA	NOTE	ISSN0005J-78	JUN 78	[REDACTED]	SEC CLASS: 25	MSN:	10P	ACCN: 508446	25X1	
YANGPACHING GEOTHERMAL POWER PLT EXPMT IDENT					CH	300220N 0904206E				
WAC NO : 0437					BE/OBJ NO:	NPIC NO :				
IDHS CODE: [REDACTED]					EPF CAT : 30E	COMIREX NO:				
SEVEROUVINSK SHIPYARD YAGRY Y CL DISMANTLED					UR	643514N 0394907E				
WAC NO : 0092					BE/OBJ NO:	NPIC NO : -	7-K			

25X1

25X1

25X1

1788
TOP SECRET CHESS RUFF [REDACTED]

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: EPF CAT : 75E COMIREX NO:
 AIRCRAFT, FENCER A SU-19 SCALE MODEL IDENT UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

25X1

25X1

SAN MARCO SATELLITE LAUNCH FACILITY KE 025640S 0401247E
 WAC NO : 0931 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1

25X1

25X1

NAVY BIIR RRG23-0001-78

JUN 78

SEC CLASS: 14B MSN:

28P

ACCN: S084468

25X1

SHIPS, D-3 CLASS SSBN

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 75D

UR

NPIC NO :

COMIREX NO:

25X1

THE DELTA III CLASS SSBN IS THE MOST RECENTLY CONSTRUCTED STRATEGIC PLATFORM IN THE SOVIET SUBMARINE FORCE. IT IS IN OVERALL LENGTH AND CARRIES 16 SS-NX-18 SLBMS. THE DELTA III SSBN IS BASICALLY A DESIGN VARIANT OF THE DELTA II; THE MISSILE BAY HAS BEEN RAISED APPROXIMATELY ONE METER IN ORDER TO ACCOMMODATE THE NEW SS-NX-18 MISSILE, WHICH IS ALSO ABOUT ONE METER LONGER THAN THE SS-N-8 MISSILE CARRIED IN DELTA II CLASS SSBNs. ASIDE FROM SEVERAL MINOR CHANGES, MAJOR EXTERNAL FEATURES APPEAR IDENTICAL TO THOSE OF THE DELTA II SSBN WHICH IS ALSO IN OVERALL LENGTH.

25X1

25X1

THIS REPORT PROVIDES AN IMAGERY-DERIVED ANALYSIS AND CHRONOLOGICAL HISTORY OF THE DELTA III CLASS SSBN. IT CONTAINS BASIC DESCRIPTIONS; PROVISIONAL SCALE DRAWINGS OF THE PRESSURE HULL, OUTER HULL, AND COMPARTMENTATION; RECOGNITION PHOTOGRAPHS; AND REFERENCE DATA.

1789

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC BIIB BCA09-0003-78 JUL 78 SEC CLASS: 14D MSN: 1P ACCN: S084471

HSIAN AIRCRAFT ENGINE PLANT 430 NO SIG CHANGE CH 342138N 1085727E
WAC NO : 0384 BE/OBJ NO: NPIC NO : - 3-B
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

25X1

ARMY BIIR RAC24-5003-78 MAY 78 SEC CLASS: 08M MSN: 16P ACCN: S084471

MILITARY, TYPE-62 LIGHT TANK CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

THIS REPORT, BASED ON GROUND PHOTOGRAPHY AND COLLATERAL REPORTS, DESCRIBES THE TYPE 62 LIGHT TANK
PRODUCED BY THE PEOPLE'S REPUBLIC OF CHINA (PRC).

THE REPORT CONTAINS AN INTRODUCTION, A BASIC DESCRIPTION, IDENTIFICATION FEATURES, REFERENCE DATA,
EIGHT ANNOTATED PHOTOGRAPHS, A SIZE COMPARISON CHART, AND A LINE DRAWING WITH DIMENSIONS OF THE PRC TYPE
62 TANK. THE INFORMATION IS CURRENT

25X1

25X1

1790
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NPIC MCS MCS003-78

JUN 78

SEC CLASS: 14

MSN:

48P

ACCN: S084473

25X1
25X1

MCS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 60A

NPIC NO :
COMIREX NO:

25X1

1791
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
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DIA IIM 5B1-58605-78 30 JUN 78 SEC CLASS: 14B MSN: 8P ACCN: S084502
MINSK ARMY TRNG AREA TA1 HELI BOMB RANGE ABND UR 535410N 0274710E
WAC NO : 0168 BE/OBJ NO: NPIC NO : - 46-Z
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

25X1
25X1

25X1

DIA IIM 5B1-58622-78 14 JUL 78 SEC CLASS: 14B MSN: 4P ACCN: S084504
NAGYKANIZSA AMMUNITION STORAGE FACILITY 510 HU 462924N 0170133E
WAC NO : 0252 BE/OBJ NO: NPIC NO : - 37-E
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

25X1
25X1

1797
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IIM 5B1-58621-78 10 JUL 78 SEC CLASS: 14 MSN: 3P ACCN: 50845025X1

LENINGRAD AVTOKOLONNA 1108

WAC NO : 0153

BE/OBJ NO:

UR 595615N 0301524E

NPIC NO :

IDHS CODE:

EPF CAT : 85A

COMIREX NO:

25X1

25X1

NPIC MEMO

20 JUL 78

SEC CLASS: 14B MSN:

2P

ACCN: 50845025X1

SHCHERBANKA RADIO RELAY STATION

WAC NO : 0250

BE/OBJ NO:

UR 464105N 0301000E

NPIC NO : - 45-A1

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

25X1

BENDERY RADIO RELAY STATION

WAC NO : 0250

BE/OBJ NO:

UR 465150N 0292540E

NPIC NO : - 8-B2

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

25X1

BELTSY RADIO RELAY + TV STATION

WAC NO : 0250

BE/OBJ NO:

UR 474635N 0275320E

NPIC NO : - 103-A1

IDHS CODE:

EPF CAT : 25B

COMIREX NO:

25X1

25X1

BELTSY RADIO RELAY + TV STATION

WAC NO : 0250

BE/OBJ NO:

UR 474635N 0275320E

NPIC NO : - 103-A1

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

25X1

YEDINTSY RADIO RELAY + TV RELAY STATION

WAC NO : 0233

BE/OBJ NO:

UR 481120N 0271800E

NPIC NO : - 202

IDHS CODE:

EPF CAT : 25B

COMIREX NO:

25X1

25X1

YEDINTSY RADIO RELAY + TV RELAY STATION

WAC NO : 0233

BE/OBJ NO:

UR 481120N 0271800E

NPIC NO : - 202

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

25X1

BRICHANY RADIO RELAY + TV STATION SEARCH

WAC NO : 0233

BE/OBJ NO:

UR 482130N 0270530E

NPIC NO :

IDHS CODE:

EPF CAT : 25B

COMIREX NO:

BRICHANY RADIO RELAY + TV STATION SEARCH

WAC NO : 0233

BE/OBJ NO:

UR 482130N 0270530E

NPIC NO :

25X1

1798

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS MEMO DESCRIBES FOUR RADIO-RELAY STATIONS BETWEEN ODESSA AND CHERNOVTSY, USSR. A FIFTH AREA WAS SEARCHED BUT NO RADIO RELAY OR TV FACILITY COULD BE IDENTIFIED. LATEST IMAGERY USED WAS FROM

25X1

DIA IIM 583-58682-78 19 JUL 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5084510 25X1
BIRZAI HIGHWAY AIRSTRIP
WAC NO : 0153 BE/OBJ NO: UR 560648N 0245706E
IDHS CODE: [] EPF CAT : 05A NPIC NO :
COMIREX NO: 25X1

DIA IIM 581-58683-78 18 JUL 78 [] SEC CLASS: 14B MSN: [] 3P ACCN: 5084511 25X1
SHONGUY MILITARY STORAGE FACILITY U/I
WAC NO : 0051 BE/OBJ NO: UR 684510N 0330815E
IDHS CODE: [] EPF CAT : 35F NPIC NO :
COMIREX NO: 25X1

DIA IIM 581-58674-78 17 JUL 78 TCS-19654-78 SEC CLASS: 14B MSN: [] 7P ACCN: 5084512 25X1
KOVROV MILITARY TRNG AREA HELI MOCK-UP TGTS
WAC NO : 0154 BE/OBJ NO: UR 562140N 0410850E
IDHS CODE: [] EPF CAT : 35B NPIC NO :
COMIREX NO: 25X1

DIA IIM 581-58669-78 17 JUL 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: 5084513 25X1
KISHINEV HF RADIO COMMO STA/CABLE BUNKER SITE
WAC NO : 0250 BE/OBJ NO: UR 470739N 0285221E
IDHS CODE: [] EPF CAT : 25D NPIC NO :
COMIREX NO: 25X1
KISHINEV COMMAND CONTROL CENTER SEARCH
WAC NO : 0250 BE/OBJ NO: UR 470815N 0285100E
IDHS CODE: [] EPF CAT : 25D NPIC NO :
COMIREX NO: 25X1
KRIKOVO TUNNEL ENTRANCES MIL ASSOC SEARCH
WAC NO : 0250 BE/OBJ NO: UR 4708 N 02806 E
IDHS CODE: [] EPF CAT : 35 NPIC NO :
COMIREX NO: 25X1

DIA IIM 581-58638-78 11 JUL 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: 5084514 25X1
LENINGRAD AVTOKOLONNA 1109
WAC NO : 0153 BE/OBJ NO: UR 595311N 0302040E
IDHS CODE: [] EPF CAT : 85A NPIC NO :
COMIREX NO: 25X1

NPIC MEMO [] 25 JUL 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: 5084515 25X1

1799

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

MAMONTOVO RADIO RELAY STATION

WAC NO : 0162

BE/OBJ NO:

UR 524310N 0813640E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 61

COMIREX NO:

ZAKLADNOYE RADIO RELAY STATION

WAC NO : 0162

BE/OBJ NO:

UR 523430N 0805658E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 67

COMIREX NO:

25X1

25X1

25X1

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25X1

TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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DIA	IIM	5b3-58724-78	28 JUL 78		SEC CLASS: 13	MSN:	1P	ACCN: 5084532	25X1
		KAZAN AIRFRAME PLT BACKFIRE/CLASSIC SHPG CONT			UR	555140N 0490700E			
		WAC NO : 0165		BE/OBJ NO:	NPIC NO : -	14-G			25X1
		UDHS CODE:		EPF CAT : 05G	COMIREX NO:				25X1
DIA	IIM	5b3-58723-78	26 JUL 78		SEC CLASS: 13	MSN:	1P	ACCN: 5084533	25X1
		IRKUTSK AIRFRAME PLT BACKFIRE SHPG CONT SRCH			UR	522131N 1041216E			
		WAC NO : 0200		BE/OBJ NO:	NPIC NO : -	4-A			25X1
		UDHS CODE:		EPF CAT : 05G	COMIREX NO:				25X1
DIA	IIM	5b1-58692-78	19 JUL 78		SEC CLASS: 14	MSN:	3P	ACCN: 5084534	25X1
		TIRASPOL AVTOKOLONNA 2829			UR	465117N 0293650E			
		WAC NO : 0250		BE/OBJ NO:	NPIC NO :				25X1
		UDHS CODE:		EPF CAT : 85A	COMIREX NO:				25X1
DIA	IIM	5b1-58693-78	19 JUL 78		SEC CLASS: 14	MSN:	2P	ACCN: 5084535	25X1
		TIRASPOL AVTOKOLONNA 2800			UR	465140N 0293718E			
		WAC NO : 0250		BE/OBJ NO:	NPIC NO :				25X1

1803
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF

25X1

DIA IIM IDHS CODE: 5B1-58680-78 EPF CAT : 85A COMIREX NO: JUL 78 SEC CLASS: 14D MSN: 6P ACCN: S08453625X1
MONASTYRISHCHE ARMY BARRACKS AL1 MRR UR 441121N 1323053E
WAC NO : 0282 BE/OBJ NO: NPIC NO : 33-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1
25X1
25X1



1804
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

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AF BIIR RFB22-5007-78 MAY 78 SEC CLASS: 07 MSN: 8P ACCN: S084554

ELECTRONICS, 4-DISH ANTENNA SSES MOUNTED

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 251

COMIREX NO:

25X1

THIS REPORT PRESENTS A PHOTOGRAPHIC ANALYSIS OF THE FOUR-DISH ARRAY ANTENNA OBSERVED ABOARD THE NEWLY-MODIFIED VYTEGRALES-CLASS SOVIET SPACE EVENTS SUPPORT SHIPS (SSES). THE REPORT INCLUDES A BASIC DESCRIPTION, AN ENGINEERING DRAWING, AND SELECTED PHOTOGRAPHY. THE ANTENNA, USED TO MAINTAIN COMMUNICATIONS WITH SPACECRAFT, CONSISTS OF AN ARRAY OF FOUR PARABOLIC REFLECTORS EACH OF WHICH CONTAINS A LOG-PERIODIC FEED SYSTEM. THE ANTENNA, ATTACHED TO AN ELEVATION-OVER-AZIMUTH MOUNT, IS SUPPORTED BY A CYLINDRICAL PEDESTAL. THE PEDESTAL FOR THE ANTENNA DESCRIBED IN THE REPORT IS POSITIONED AMIDSHIP BETWEEN THE PREVIOUSLY EXISTING AFT SUPERSTRUCTURE AND THE NEW FORWARD SUPERSTRUCTURE OF THE SSES COSMONAUT VLADISLAV VOLKOV.

AF BIIR RFB22-5005-78 MAY 78 SEC CLASS: 07 MSN: 14P ACCN: S084555

AIRCRAFT, FITTER E SU-17

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 05D

COMIREX NO:

25X1

THIS REPORT PRESENTS AN ANALYSIS OF THE FITTER E (SU-17), A TWO-PLACE, SINGLE-ENGINE, VARIABLE-GEOMETRY-WING (VGV) TRAINER DESIGNED BY THE P.O. SUKHOY SPECIAL DESIGN BUREAU (OKB). THE REPORT CONTAINS A BASIC DESCRIPTION, ENGINEERING DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT. THE FITTER E

25X1

1809
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
23A1

25X1

AF BIIR RFB22-5004-78 MAY 78 SEC CLASS: 07 MSN: 16P ACCN: S084556

AIRCRAFT, FITTER D SU-17

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

UR

THIS REPORT PRESENTS AN ANALYSIS OF THE FITTER D (SU-17), A SINGLE-PLACE, SINGLE-ENGINE, VARIABLE-GEOMETRY-WING (VGW) FIGHTER DESIGNED BY THE P.O. SUKHOY SPECIAL DESIGN BUREAU (OKB). THE REPORT CONTAINS A BASIC DESCRIPTION, ENGINEERING DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT. THE FITTER D

25X1

25X1

AF BIIR RFB22-0005-78 JUN 78 SEC CLASS: 13 MSN: 12P ACCN: S084556-25X1

MISSILES, GANTRY TYURATAM MTC SPACE SITE U1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
TYURATAM MTC SPACE SITE U1 GANTRY UR 460214N 0630212E
WAC NO : 0246 BE/OBJ NO: NPIC NO : 6-Y7
IDHS CODE: EPF CAT : 40H COMIREX NO:

UR

THIS REPORT PROVIDES A PHOTOGRAPHICALLY DERIVED ANALYSIS OF THE U1 GANTRY AT SPACE SITE U1, TTMT. THE BASIC DESCRIPTION IS SUPPLEMENTED BY ENGINEERING DRAWINGS AND REPRESENTATIVE PHOTOGRAPHY OF THE CONSTRUCTION SEQUENCE. THE GANTRY HAS TWIN TOWERS OF OPEN STRUCTURAL STEEL FABRICATION MOUNTED ON A MASSIVE RAILBORNE BASE. THE GANTRY HAS A HEIGHT OF METERS AND IS FITTED WITH EIGHT LAUNCH VEHICLE SERVICE PLATFORMS AND TWO SERVICE DECKS. INTERNAL CLEARANCE BETWEEN THE TOWERS IS 15 METERS.

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25X1

25X1

25X1

25X1

1810
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 605-78 01 JUN 78 SEC CLASS: 13 MSN: 3P ACCN: S084566 25X1

PUSHKINO RADIO COMMO + AM BDCST XMTR COMPLEX UR 560417N 0375636E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 111-A
IDHS CODE: EPF CAT : 25D COMIREX NO:
PUSHKINO RADIO COMMO + AM BDCST XMTR COMPLEX UR 560417N 0375636E

25X1
225X1

1812
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0154 BE/OBJ NO: EPF CAT : 25B NPIC NO : - 111-A
 IDHS CODE: ZIMENKI RADIO ASTRONOMY FACILITY GORKIY INST UR 560921N 0441712E
 WAC NO : 0155 BE/OBJ NO: EPF CAT : 25 NPIC NO : - 7-D
 IDHS CODE: APATITY ANTENNA FIELD LARGE SEARCH COMIREX NO:
 WAC NO : 0091 BE/OBJ NO: EPF CAT : 25 NPIC NO :
 IDHS CODE: KIROVSK VLF RADIO COMMO XMTR STA MODIF SEARCH COMIREX NO:
 WAC NO : 0091 BE/OBJ NO: EPF CAT : 25 NPIC NO : - 10-H1
 IDHS CODE: ELECTRONICS, IONOSPHERIC MODIF RESEARCH FACIL COMIREX NO:
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT PROVIDES THE FOLLOWING PHOTOGRAPHIC ANALYSIS OF SOVIET IONOSPHERIC MODIFICATION RESEARCH FACILITIES: (1) A DESCRIPTION OF THE RECTANGULAR GROUND CLEARING AT THE PUSHKINO RADCOM AND AM RC XMTR COMPLEX, (2) A GENERAL DESCRIPTION OF ANY NEW ANTENNA FIELDS OR STRUCTURES THAT HAVE BEEN ADDED TO THE ZIMENKI RADIO ASTRONOMY FACILITY SINCE PAR 72-556, (3) A 10-NAUTICAL MILE RADIUS SEARCH OF THE APATITY AREA FOR THE PRESENCE OF ANY LARGE ANTENNA FIELDS, (4) AND A DESCRIPTION OF ANY MODIFICATIONS TO THE KIROVSK VLF RADCOM XMTR STATION. ANNOTATIONS IN THE ZIMENKI ANALYSIS ARE KEYED TO DRAWING 72D6515/1. THE SEARCH OF THE APATITY AND KIROVSK AREAS WAS NEGATIVE.*

AF ENDR D6515-1-72 12 MAY 78 SEC CLASS: 13 MSN: 1P ACCN: S084567

25X1

ZIMENKI RADIO ASTRONOMY FACILITY GORKIY INST UR 560921N 0441712E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 7-D
 IDHS CODE: EPF CAT : 25 COMIREX NO:

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 72-556 AND 78-605.*

AF ENDR D6506-4-74 20 APR 78 SEC CLASS: 13 MSN: 1P ACCN: S084568

25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 240 UR 554803N 0373223E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-K3
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 76-521 AND 78-593.*

AF ENDR C1017-78 29 JUN 78 SEC CLASS: 07 MSN: 1P ACCN: S084569

AIRCRAFT, FISHBED H MIG-21 VENTRAL PONS UR
 WAC NO : BE/OBJ NO: NPIC NO :

25X1

1813

TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

IDHS CODE: EPF CAT : 05D COMIREX NO:

[Redacted]

25X1

NPIC MEMO [Redacted] 11 JUL 78 [Redacted] SEC CLASS: 25 MSN: 4P ACCN: S0845725X1

BUENOS AIRES COMMUNICATIONS FACILITY AR 342724S 0583714W
WAC NO : 1434 BE/OBJ NO: NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 25D COMIREX NO:

25X1)

ARMY PIM PIM038-78 JUN 78 [Redacted] SEC CLASS: 14A MSN: [Redacted] 7P

ACCN: S0845725X1

JUNGCHENG ELINT FACILITY CH 371630N 1222520E
WAC NO : 0381 BE/OBJ NO: [Redacted] NPIC NO : - 150-A
IDHS CODE: [Redacted] EPF CAT : 25A COMIREX NO:

25X1

25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPHS OF JUNG-CHENG ELINT FAC, [Redacted] PEOPLES REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE BUILDINGS, NUMBER, SIZE, AND

25X1

1814
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ORIENTATION IN DEGREES OF THE ANTENNAS, ELEVATION OF THE FACILITY, AND ITS GEOGRAPHIC LOCATION.

DIA IAPPR 176-78 28 JUL 78 [] SEC CLASS: 24 MSN: 8P ACCN: S084575 25X1

ELECTRONICS, COMSAT DEVELOPMENTS

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25C	COMIREX NO:

UR

DEVELOPMENTS SINCE FEBRUARY SUGGEST THAT THE SOVIET GENERAL STAFF (GS) COMMAND-AND-CONTROL SYSTEM EMPLOYING RADUGA GEOSTATIONARY COMMUNICATIONS SATELLITES (COMSATS) IS AT LEAST PARTIALLY OPERATIONAL. THE SYSTEM HAS OPERATED IN SUPPORT OF GS EXERCISES, PROVIDED ROUTINE COMMUNICATIONS TO SOVIET MILITARY ADVISERS IN AFGHANISTAN, AND HAS SUPPORTED RECENT MINISTRY OF DEFENSE LEADERSHIP TRAVELS. IN ADDITION, IT WAS PROBABLY RECENTLY EMPLOYED IN COMMUNICATIONS TESTING BY AT LEAST THREE SOVIET NAVAL COMMAND-AND-CONTROL SHIPS. FOR THE SECOND TIME THIS YEAR, COMMUNICATIONS INVOLVING MILITARY HEADQUARTERS IN THE FAR EAST AND TRANSBAYKAL MILITARY DISTRICTS ARE BEING CARRIED OUT BY THE STRATEGIC ROCKET FORCES' MOLNIYA 1 COMSAT SPACE-TRACKING NETWORK. THIS ACTIVITY MAY BE AN INDICATION OF SOVIET INTENTIONS TO COORDINATE MANNED SPACE OPERATIONS WITH CERTAIN ASPECTS OF MILITARY EXERCISE ACTIVITY. THE SOVIETS HAVE ANNOUNCED PLANS TO ESTABLISH FOUR ADDITIONAL GEOSTATIONARY COMSAT NETWORKS BETWEEN 1979 AND 1982. THE NETWORKS WOULD BE OF MAJOR IMPORTANCE TO THE ARMED FORCES, COVERING ALL AREAS WHERE A MILITARY PRESENCE IS MAINTAINED.

DIA STDY DDB1921-013-78 JUL 78 [] SEC CLASS: 25 MSN: 17P ACCN: S084576 25X1

MILITARY, T-64/T-72 MEDIUM TANK PROD ASMNT

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35G	COMIREX NO:

UR

MILITARY, T-64 MEDIUM TANK

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:

UR

MILITARY, T-72 MEDIUM TANK

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:

UR

THIS STUDY DEALS WITH THE DEVELOPMENT AND PRODUCTION OF THE SOVIET UNION'S NEWEST FIELDIED MEDIUM TANKS. IT DISCUSSES THE PRINCIPAL FACILITIES AND PERSONS INVOLVED AT EACH PHASE OF DEVELOPMENT. THOUGH IT WAS NOT FORMALLY ADOPTED UNTIL 1971, THE CONCEPT OF THE UNIFIED SYSTEM OF DESIGN DOCUMENTATION (YESKD) WAS CLOSELY FOLLOWED BY THE SOVIETS IN THE DESIGN, DEVELOPMENT, AND PRODUCTION OF THE T-64 AND T-72. THIS STUDY ADDRESSES ONLY THOSE FACILITIES CONCERNED WITH THE DEVELOPMENT, TESTING AND PRODUCTION OF THE COMPLETE VEHICLE.

DIA STDY DDB1000-089-78 JUL 78 [] SEC CLASS: 25 MSN: 21P ACCN: S084577 25X1

MISSILES, SSM DEPLOYMENT/R+D/PROD/TRNG EXERS CH

1815
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

CHINA HAS DEVELOPED WAYS OF INSURING THE CREDIBILITY AND SURVIVABILITY OF ITS MR/IRBM FORCE AND ITS SILO-DEPLOYED CSS-3 ICBMS. THE MEANS FOR ACHIEVING CREDIBILITY ARE: PUBLIC ANNOUNCEMENTS OF EARTH SATELLITE VEHICLE LAUNCHES, NUCLEAR DEVICE DETONATIONS, FIRINGS OF BALLISTIC MISSILES, AND MISSILE HANDLING EXERCISES AT EASILY OBSERVED TEST/TRAINING FACILITIES. EXTENSIVE MISSILE-RELATED RESEARCH AND DEVELOPMENT FACILITIES AND A BROAD MISSILE-RELATED PRODUCTION BASE ALSO ADD CREDIBILITY TO CHINA'S MISSILE PROGRAM. SURVIVABILITY OF CHINA'S MISSILE FORCE IS ACHIEVED BY EXPLOITING TO THE FULLEST A SEMIMOBILE DEPLOYMENT CONCEPT, CAMOUFLAGING SITES, DEVELOPING A VERSATILE TARGETING CAPABILITY, LOCATING SITES IN MOUNTAINOUS TERRAIN, AND BUILDING A HIGHLY SECURE COMMAND AND CONTROL NETWORK. ALL OF THE FACTORS THAT MAKE CHINA'S MISSILE FORCE BOTH CREDIBLE AND SURVIVABLE COMBINE SYNERGISTICALLY TO MAXIMIZE A POTENTIAL ADVERSARY'S UNCERTAINTY IN ANALYZING AND TARGETING THAT FORCE.

DIA STDY DST1080R-115-78 30 JUN 78 SEC CLASS: 25 MSN: 50P ACCN: S0845725X1

ELECTRONICS, COMMAND CONTROL CSRF SHENYANG MR CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THE PURPOSE OF THIS REPORT IS TO PRESENT ANALYZED INFORMATION ON THE CHINESE STRATEGIC ROCKET FORCES, INCLUDING THE MILITARY AUTHORITIES, MISSILE UNITS, AND THE COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS THAT SUPPORT THEM IN THE SHEN-YANG MILITARY REGION.

DIA STDY DST1320S-056-78 23 JUN 78 SEC CLASS: 25 MSN: 33P ACCN: S0845725X1

AIRCRAFT, HSIAN A CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE ADDITIONAL, ALL-SOURCE INFORMATION CONCERNING THE HSIAN-A AIRCRAFT DEVELOPMENTS. IT SUPPLEMENTS THE SECRET DOCUMENT, DST-1320S-056-78, WITH INFORMATION DERIVED PRIMARILY FROM SATELLITE PHOTOGRAPHY

DIA STDY DST1070S-011-78 JUN 78 SEC CLASS: 25F MSN: 375P ACCN: S0845825X1

EMBA MTC UR 483800N 0580300E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

1816
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

THIS REPORT IS A COMPILATION OF THE AVAILABLE INTELLIGENCE INFORMATION CONCERNING THE LAUNCH FACILITIES, SUPPORT FACILITIES, RANGE DESCRIPTION AND ENVIRONMENT, RANGE OPERATION AND CONTROL, RANGE INSTRUMENTATION, AND RANGE ACTIVITIES RELATING TO SYSTEM MODIFICATIONS OR NEW DEVELOPMENT PROGRAMS AT THE EMBA MISSILE TEST RANGE.

CIA REPT SI10072J-78 JUL 78

SEC CLASS: 25A MSN:

22P

ACCN: 5084581

25X1
25X1

25X1

25X1

25X1

25X1

1817
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO

01 AUG 78

SEC CLASS: 14

MSN:

5P

ACCN: 508458

25X1

EMBA MTC R-400/404 RADIO RELAY FACILITIES UR 483800N 0580300E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
DONGUZ RADIO RELAY STATION WEST UR 513245N 0545050E 25X1
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 11-B1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1
EMBA MTC TRACKING FACILITY 4 RADIO RELAY FAC UR 482700N 0574300E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22-E3 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
EMBA MTC TRACKING FACILITY 5 RADIO RELAY FAC UR 481131N 0581605E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22-C 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
EMBA MTC SA-1 FACILITY RADIO RELAY FACILITY UR 470730N 0570407E
WAC NO : 0247 BE/OBJ NO: NPIC NO : - 2 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
EMBA MTC SUPPORT COMPLEX RADIO RELAY FACILITY UR 484600N 0580300E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22-D 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
EMBA MTC SUPPORT AREA A RADIO RELAY FACILITY UR 483520N 0580120E

1818
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

WAC NO : 0236 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 22-M
IDHS CODE: EMBA MTC TRACKING FACILITY 6 RADIO RELAY FAC COMIREX NO: 25X1
WAC NO : 0236 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 40 25X1
IDHS CODE: EMBA MTC TRACKING FACILITY 7 RADIO RELAY FAC COMIREX NO: 25X1
WAC NO : 0247 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 17 25X1
IDHS CODE: EMBA MTC TRACKING FACILITY 7 RADIO RELAY FAC COMIREX NO: 25X1
WAC NO : 0236 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 22-6 25X1
IDHS CODE: EMBA MTC ELECTRONICS FACILITY A COMIREX NO: 25X1

DIA IIM 5B1-58790-78 03 AUG 78

SEC CLASS: 14B MSN:

6P

ACCN: 5084586

ZAGREB ORDNANCE REPAIR + STORAGE DEPOT

YO 454759N 0155422E

WAC NO : 0252

BE/OBJ NO:

NPIC NO : - 74-D

IDHS CODE:

EPF CAT : 35F

COMIREX NO:

NPIC MEMO

18 JUL 78

SEC CLASS: 13

MSN:

4P

ACCN: 5084588

ALEKSANDROV AIRFIELD

WAC NO : 0154

BE/OBJ NO:

UR 562335N 0384450E

NPIC NO :

1819
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
KIRZHACH AIRFIELD UR 560917N 0384942E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 112-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
KRASNOARMEYSK AIRFIELD UR 560433N 0381237E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 120
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
BOROVSK AIRFIELD UR 551330N 0363658E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 7
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

CIA INFR IS10194K-78 28 JUL 78 [] SEC CLASS: 13 MSN: 4P

ACCN: S0845825X1

MOSKVA TV + FM BDCST CTR OSTANKINO MCRWV ANTS UR 554955N 0373639E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B4
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
MOSKVA TV + FM BDCST CTR OSTANKINO MCRWV ANTS UR 554955N 0373639E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B4
IDHS CODE: [] EPF CAT : 25B COMIREX NO: []

25X1
25X1
25X1
25X1
25X1

CIA INFR IS10192K-78 26 JUL 78 [] SEC CLASS: 13 MSN: 3P

ACCN: S0845925X1

LOBITO/VILA TEIXEIRA DE SOUSA RAIL LINE ACT AO 1225 S 01332 E

1820
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 1150 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 85B COMIREX NO:
 VILA TEIXEIRA DE SOUSA/LOBITO RAIL LINE ACT AO 104200S 0221100E
 WAC NO : 1056 BE/OBJ NO: NPIC NO : - 2-A
 IDHS CODE: EPF CAT : 85B COMIREX NO:

25X1

25X1

25X1

THE BENGUELA RAILROAD, WHICH EXTENDS FROM THE PORT OF LOBITO, ANGOLA TO THE ZAIRIAN COPPER BELT APPEARS TO BE OPERATIONAL WITHIN ANGOLA. HOWEVER A DERAILED LOCOMOTIVE OR RAILCAR ON THE RAIL BRIDGE AT THE ANGOLAN/ZAIRIAN BORDER COMPLETELY OBSTRUCTS TRAFFIC. IT WILL HAVE TO BE REMOVED BEFORE COPPER SHIPMENTS FROM ZAIRE CAN BE RESUMED.

ABOUT 85 PERCENT OF THE ANGOLAN PORTION OF THE LINE WAS OBSERVED ON MAY 1978 PHOTOGRAPHY AND ALL BUT ONE OF THE BRIDGES WERE INTACT, AND THIS BRIDGE HAS BEEN BYPASSED. TWO TRAINS WERE OBSERVED IN OPERATION, ONE EAST OF BENGUELA AND THE OTHER NEAR THE ZAIRIAN BORDER.

CIA INFR IS10190K-78 26 JUL 78 SEC CLASS: 13 MSN: 2P ACCN: S084592 25X1

EMBA MTC IR EVENT/LAUNCH FAC CORRELATION SRCH UR 483800N 0580300E
 WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
 IDHS CODE: EPF CAT : 65 COMIREX NO:
 EMBA MTC IR EVENT/LAUNCH FAC CORRELATION SRCH UR 483800N 0580300E
 WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
 IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

25X1

25X1

AN AREA 5 NAUTICAL MILES IN RADIUS CENTERING ON FIVE GEOGRAPHIC LOCATIONS AT EMBA MISSILE TEST CENTER WHERE IR EVENTS HAD BEEN DETECTED IN 1977 WAS SEARCHED WITHOUT RESULT FOR EVIDENCE OF LAUNCH ACTIVITY.*

CIA INFR IS10184K-78 24 JUL 78 SEC CLASS: 13 MSN: 18P ACCN: S084593 25X1

MISSILES, ACTIVITY SUMMARY SALT RELATED UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1

CIA INFR IS10120K-78 20 JUL 78 SEC CLASS: 13 MSN: 4348 4P ACCN: S084594 25X1

EMBA MTC AIRCRAFT GROUND MARKERS SAM RELATED UR 483800N 0580300E
 WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
 IDHS CODE: EPF CAT : 40C COMIREX NO:
 EMBA MTC AIRCRAFT GROUND MARKERS SAM RELATED UR 483800N 0580300E

25X1

25X1

25X1

1821
 TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

WAC NO : 0236
IDHS CODE: []BE/OBJ NO: []
EPF CAT : 05NPIC NO : - 22
COMIREX NO: []25X1
25X1

THERE ARE THREE SURFACE-TO-AIR MISSILE (SAM) LAUNCH COMPLEXES AT THE EMBA MISSILE TEST CENTER (EMTC). THESE THREE COMPLEXES ARE ALIGNED ALONG AN EAST-WEST AZIMUTH WITH COMPLEX A ON THE WEST AND COMPLEX C ON THE EAST. DOWNRANGE IS TO THE SOUTH OF THE LAUNCH POSITIONS. TWO ROWS OF AIRCRAFT GROUND PANELS ARE LOCATED DOWNRANGE FROM THE LAUNCH COMPLEXES. THESE MARKERS PROVIDE A PRECISE APPROACH COURSE FOR PILOTED AIRCRAFT THAT ARE FLYING A HIGH SPEED/LOW ALTITUDE PROFILE IN THE LAUNCH AREA TO TEST THE RADARS AND OTHER COMPONENTS OF THE SAM SYSTEMS UNDER DEVELOPMENT. ONE ROW OF THESE PANELS WAS ERECTED PRIOR TO JUNE 1967 IN A LINE THAT EXTENDS SOUTH FROM A POINT MIDWAY BETWEEN LAUNCH COMPLEX A AND B. THE SECOND ROW OF PANELS WAS ERECTED [] IN A LINE THAT EXTENDS SOUTH FROM A POINT AT LAUNCH PAD C1.

25X1

CIA INFR IS10163J-78 18 JUL 78 [] SEC CLASS: 24 MSN: 38P

ACCN: 508459525X1

MILITARY, ARTILLERY REGIMENTS PEICHING MR

CH

WAC NO :
IDHS CODE:BE/OBJ NO:
EPF CAT : 35DNPIC NO :
COMIREX NO:

THE THREE INDEPENDENT ARTILLERY DIVISIONS DISCUSSED IN THIS REPORT ARE ALL LOCATED IN THE PEKING MILITARY REGION AND WITHIN ABOUT 200 KM OF PEKING. ONE DIVISION IS IN THE PEKING MUNICIPALITY AND THE OTHER TWO ARE IN HOPEH PROVINCE. ALL THE UNITS OF THESE THREE DIVISIONS ARE LOCATED ALONG OR NEAR RAIL LINES. THE REGIMENTS OF THE TWO DIVISIONS IN HOPEH PROVINCE ARE AT FULL STRENGTH, WHILE THE REGIMENTS OF THE OTHER DIVISION HAVE ONLY TWO BATTALIONS EACH.

THE THREE DIVISIONS HAVE A TOTAL OF SIXTEEN INSTALLATIONS; EIGHT HAVE ARTILLERY MINIATURE RANGES. AN ARTILLERY TRAINING AREA IS LOCATED IN THE VICINITY OF THE DIVISION NORTHWEST OF PEKING, AND ARTILLERY FIELD TRAINING HAS BEEN NOTED NEAR THE DIVISION EAST-NORTHEAST OF PEKING.

THIS MEMORANDUM INCLUDES A DISCUSSION OF THE THREE DIVISIONS, A TABLE LISTING THE UNITS SUBORDINATE TO EACH DIVISION, PHOTOGRAPHS ANNOTATED IN THE NATIONAL BASIC REFERENCE GRAPHIC (NBRG) FORMAT, AND OIA BRIEFS FOR EACH INSTALLATION. THE ANALYSIS OF THESE UNITS HAS BEEN COORDINATED WITH THE CHINA GROUND FORCES WORKING GROUP.

CIA INFR IS10175K-78 10 JUL 78 [] SEC CLASS: 13 MSN: 5P

ACCN: 508459525X1

BAGHDAD EW RADAR SYSTEM FRENCH

IZ 3320 N 04423 E

WAC NO : 0427

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 25A

COMIREX NO:

H-3 AIRFIELD EW RADAR SYSTEM FRENCH

IZ 325616N 0394444E

WAC NO : 0427

BE/OBJ NO:

NPIC NO : - 22

IDHS CODE: []

EPF CAT : 25H

COMIREX NO: []

25X1
25X1

SATELLITE PHOTOGRAPHY CONFIRMS [] REPORTING OF IRAQ'S PURCHASE OF FRENCH AIR DEFENSE RADAR AND COMMUNICATIONS EQUIPMENT. [] THE IRAQIS SIGNED A CONTRACT IN 1975 WITH

25X1
25X11822
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THOMSON-CSF, A FRENCH RADAR MANUFACTURING FIRM, FOR THE PURCHASE OF FOUR COMPLETE RADAR AND COMMUNICATIONS PACKAGES. THE PURCHASE INCLUDED FOUR LP-23 LONG-RANGE AIR SURVEILLANCE RADARS, FOUR VOLEX-III THREE-DIMENSIONAL SURVEILLANCE RADARS, AND ASSOCIATED AUTOMATIC DATA PROCESSING AND COMMUNICATIONS EQUIPMENT. REPORTS DATED FEBRUARY 1978 STATED THAT THE FRENCH FIRM HAD DELIVERED AND INSTALLED TWO OF THE FOUR RADAR PACKAGES AT SITES NEAR BAGHDAD AND AR RUTBAH.

CIA INFR IS10177J-78 10 JUL 78 [] SEC CLASS: 24 MSN: 9P ACCN: S084597 25X1

NAVAL, ACTIVITY SUMMARY SALT RELATED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

THIS MEMORANDUM SUMMARIZES SOVIET STRATEGIC NAVAL ACTIVITY OBSERVED ON []
[] THIS REPORT ALSO DESCRIBES ANY UNUSUAL DEPLOYMENT OF NAVAL BALLISTIC MISSILE AND LONG
RANGE CRUISE MISSILE LAUNCH PLATFORMS OBSERVED DURING THE REPORTING PERIOD.*

25X1
25X1

25X1

CIA INFR IS10173K-78 07 JUL 78 [] SEC CLASS: 13 MSN: 6P ACCN: S084600 25X1

CHICHIHAERH ARMS + AMMUNITION PARTS PLANT 127 CH 472003N 1235832E
WAC NO : 0283 BE/OBJ NO: [] NPIC NO : - 28-H
IDHS CODE: [] EPF CAT : 356 COMIREX NO: []

25X1
225X11823
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THE CHI-CHI-HA-ERH ARMS AND AMMUNITION PARTS PLANT 127 IS THE ONLY KNOWN LARGE CALIBER ARTILLERY PLANT IN CHINA. THIS REPORT PROVIDES A TABLE KEYED TO A PHOTOGRAPH OF THE PLANT THAT INCLUDES THE FUNCTION, SQUARE METERS OF ROOF AREA, AND CONSTRUCTION PERIOD OF THE MAJOR PRODUCTION BUILDINGS AT CHI-CHI-HA-ERH 127. AN ADDITIONAL TABLE LISTS THE NUMBER AND LOCATION OF WEAPONS OBSERVED IN THE PLANT AREA ON COVERAGE

THERE HAS BEEN NO ADDITIONAL COVERAGE OF THE PLANT

25X1

CIA INFR IS10179K-78 12 JUL 78 SEC CLASS: 13 MSN: 3P ACCN: S084601 25X1

LOYANG MINING MACHINERY PLANT AAA PROD SRCH CH 344109N 1122712E
WAC NO : 0385 BE/OBJ NO: NPIC NO : - 17-0
IDHS CODE: EPF CAT : 30C COMIREX NO:
LOYANG MINING MACHINERY PLANT AAA PROD SRCH CH 344109N 1122712E
WAC NO : 0385 BE/OBJ NO: NPIC NO : - 17-0
IDHS CODE: EPF CAT : 35G COMIREX NO:
SHIHCHICHUANG ARTILLERY + RADAR PLANT CH 380109N 1143002E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 11-C5
IDHS CODE: EPF CAT : 35G COMIREX NO:
SHIHCHICHUANG ARTILLERY + RADAR PLANT CH 380109N 1143002E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 11-C5
IDHS CODE: EPF CAT : 25E COMIREX NO:
NIENTZUSHAN AMMUNITION PLT 123 AAA PROD SRCH CH 473120N 1225440E
WAC NO : 0284 BE/OBJ NO: NPIC NO : - 9-R
IDHS CODE: EPF CAT : 35G COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

CIA INFR IS10176K-78 12 JUL 78 SEC CLASS: 13 MSN: 9P ACCN: S084601 25X1

MILITARY, ARMY COMBAT BRGD ORG/EQUIP HOLDINGS AG
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

FOR THE PAST TWO YEARS THE ALGERIANS HAVE BEEN RE-EQUIPPING THE BATTALIONS OF THEIR ONE ARMORED AND TWO MECHANIZED INFANTRY BRIGADES WITH MODERN ARMAMENTS PURCHASED FROM THE SOVIETS. THESE PURCHASES HAVE SIGNIFICANTLY IMPROVED THE FIREPOWER AND MOBILITY OF THE ALGERIAN ARMY.

OIA ANALYZED SATELLITE PHOTOGRAPHY FROM JANUARY 1975 THROUGH APRIL 1978 TO DETERMINE THE ORGANIZATION AND EQUIPMENT HOLDINGS OF ALGERIAN COMBAT BRIGADES. THE LIMITED AMOUNT OF PHOTOGRAPHIC COVERAGE AND LACK OF RELIABLE COLLATERAL INFORMATION RESTRICTED OIA'S STUDY TO THE COMBAT BRIGADES. OIA DID NOT ANALYZE THE ORGANIZATION AND EQUIPMENT HOLDINGS OF EITHER ARMY-LEVEL SUPPORT UNITS OR INDEPENDENT ARMY BATTALIONS.

CIA INFR IS10178K-78 13 JUL 78 SEC CLASS: 13 MSN: 4P ACCN: S084604 25X1

TAIYUAN ARTILLERY PLANT 247 SHANSI CH 375346N 1123346E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 12-H1

25X1

1824
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: EPF CAT : 35G COMIREX NO:

225X1

THE TAI-YUAN ARTILLERY PLANT 247 PROBABLY PRODUCES SMALL CALIBER ARTILLERY AND POSSIBLY PRODUCES 85-MM TANK GUNS. THIS REPORT PROVIDES A TABLE KEYED TO A PHOTOGRAPH OF THE PLANT THAT INCLUDES THE FUNCTION, SQUARE METERS OF ROOF AREA, AND THE CONSTRUCTION PERIOD OF THE MAJOR PRODUCTION BUILDINGS AT TAI-YUAN 247.

CIA INFR IS10172J-78 17 JUL 78 SEC CLASS: 25 MSN: 9P ACCN: 5084606

MISSILES, SA-2/3/6 DEPLOYMENT + ORGANIZATION IZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40C COMIREX NO:

THE IRAQIS HAVE BEEN STEADILY IMPROVING THEIR SURFACE-TO-AIR MISSILE (SAM) FORCES SINCE THE INITIAL DEPLOYMENT OF SA-3 MISSILES AROUND BAGHDAD IN 1972. SA-2S AND SA-3S ARE BEING JOINTLY DEPLOYED TO DEFEND KEY URBAN AND INDUSTRIAL AREAS. IN ADDITION, SA-6S ARE PROVIDING AIR DEFENSE FOR THE THREE IRAQI ARMORED DIVISIONS.

CIA INFR IS10166K-78 14 JUL 78 SEC CLASS: 13 MSN: 10P ACCN: 5084607

MISSILES, SS-16 CANISTER MENSURATION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, SS-20 CANISTER MENSURATION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

THE OFFICE OF IMAGERY ANALYSIS, MISSILE SYSTEMS DIVISION, HAS COMPLETED A THIRD MENSURATION STUDY IN AN EFFORT TO DETERMINE THE SIZE OF THE SS-X-16 AND SS-20 MISSILE CANISTERS. THE RESULTS OF THIS STUDY ARE AS FOLLOWS:

1825
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

25X1

CIA INFR IS10168K-78 11 JUL 78 SEC CLASS: 14 MSN: 9P ACCN: 5084608 25X1

AIRCRAFT, BACKFIRE INLET MODIFICATIONS ANAL UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

RECENT REPORTING BASED IMAGERY OF RAMENSKOYE FLIGHT TEST CENTER IMAGERY
OF KAZAN AIRFRAME PLANT 22 HAS INDICATED THAT THERE HAS BEEN AN ENGINE INLET SYSTEM MODIFICATION TO THE
BACKFIRE BOMBER. AFTER THOROUGHLY ANALYZING THE REFERENCED IMAGERY, IN ADDITION TO OLDER IMAGERY OF BOTH
KAZAN AND RAMENSKOYE, OIA FIRMLY BELIEVES THAT THERE HAS BEEN NO MODIFICATION TO THE BACKFIRE INLET
SYSTEM. WHILE OIA CANNOT DETERMINE EXACTLY WHAT CAUSES CERTAIN OF THESE AIRCRAFT TO APPEAR TO BE MODIFIED,
OIA BELIEVES THAT THERE IS SUFFICIENT EVIDENCE TO NEGATE A MODIFIED BACKFIRE HYPOTHESIS.

25X1

CIA INFR IS10152K-78 15 JUN 78 SEC CLASS: 14 MSN: 55P ACCN: 5084608 25X1

AIRCRAFT, INDUSTRY DISPERSAL EVIDENCE ASMNT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05G COMIREX NO:

THIS REPORT PROVIDES A PHOTOGRAPHIC ASSESSMENT OF THE INFORMATION PROVIDED BY THREE SEPARATE SOURCES ON
THE DISPERSMENT OF THE CHINESE AIRCRAFT INDUSTRY. THESE SOURCES REPORT THAT, FOR STRATEGIC AND POLITICAL
REASONS, THE CHINESE ARE BEGINNING TO MOVE AWAY FROM A HIGHLY CENTRALIZED AIRCRAFT INDUSTRY TO ONE
DISPERSED OVER A LARGE MOUNTAINOUS REGION WHERE SOME FACILITIES CAN BE LOCATED IN CAVES. TO ACCOMPLISH
THIS, THE CHINESE ARE REPORTED TO HAVE DISPERSED MUCH OF THEIR AIRCRAFT SUBCOMPONENT MANUFACTURING. THE
SUBCOMPONENTS ARE SHIPPED TO AN ASSEMBLY PLANT WHERE THEY ARE PUT INTO THE FINAL PRODUCT OR A SUBASSEMBLY
OF THE FINAL PRODUCT.

ALTHOUGH THIS DISPERSAL MAY NOT SIGNIFICANTLY INCREASE THE CHINESE CAPACITY TO PRODUCE AIRCRAFT, IT
WOULD INDICATE A MUCH HIGHER INVESTMENT IN THEIR AIRCRAFT INDUSTRY THAN HAD PREVIOUSLY BEEN ASSESSED. THIS
HIGHER INVESTMENT--PRIMARILY IN THE DUPLICATION OF SUPPORT-TYPE FACILITIES--INDICATES THAT THE CHINESE
WOULD BE PAYING A HIGHER COST PER AIRCRAFT THEN HAD BEEN PREVIOUSLY ESTIMATED.

ALTHOUGH THE INFORMATION PROVIDED BY THE SOURCES SEEMS TO PROVIDE VERY SPECIFIC DATA ON THE LOCATION
AND LAYOUT OF SOME OF THE DISPERSED PLANTS, OIA WAS UNABLE TO POSITIVELY CORRELATE ANY OF THE FACILITIES
SEEN ON PHOTOGRAPHY WITH THE DESCRIPTIONS GIVEN BY THE SOURCES. HOWEVER, OIA WAS ABLE TO IDENTIFY 11
INSTALLATIONS WHICH MAY BE RELATED TO PLANTS DESCRIBED IN REFERENCES 1, 2 AND 3. IN ADDITION, OIA FOUND 21
OTHER FACILITIES SOME PREVIOUSLY UNIDENTIFIED, WHICH MAY HAVE AN AIRCRAFT SUB-COMPONENT OR FINAL ASSEMBLY
FUNCTION.

25X1

1826
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR 1S10133J-78 30 JUN 78 [] SEC CLASS: 13 MSN: [] 43P ACCN: S084611 25X1

MILITARY, ARMORED UNITS PEICHING MR

CH

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 35

COMIREX NO:

THIS MEMORANDUM DISCUSSES FIVE ARMORED UNITS IN THE PEKING MILITARY REGION OF CHINA. THESE UNITS INCLUDE: THREE REPORTED ARMORED DIVISIONS AROUND PEKING AT NAN-KOU/YANG-FANG, CHI-HSIEN/HSIN-CHENG, AND CHANG-HSIN-TIEN, AN INDEPENDENT TANK REGIMENT AT TAI-YUAN, AND A NEWLY IDENTIFIED TANK REGIMENT WHICH IS TENTATIVELY SUBORDINATED TO THE 70TH INFANTRY DIVISION OF THE 24TH ARMY AT CHI-KOU-TUN.

CIA INFR 1S10164J-78 27 JUN 78 [] SEC CLASS: 13 MSN: [] 25P ACCN: S084612 25X1

MILITARY, AAA UNITS PEICHING MR

CH

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 35

COMIREX NO:

THIS MEMORANDUM DESCRIBES THE 62ND AND THE 2010TH AAA DIVISIONS IN PEKING MILITARY REGION, CHINA. IT INCLUDES A DISCUSSION OF EACH DIVISION AND A TABLE LISTING THE SUBORDINATE UNITS. ATTACHMENTS INCLUDE PHOTOGRAPHS ANNOTATED IN THE NATIONAL BASIC REFERENCE GRAPHIC (NBRG) FORMAT AND OIA INSTALLATION BRIEFS. THE ANALYSIS OF THE UNITS HAS BEEN COORDINATED WITH THE CHINA GROUND FORCES WORKING GROUP.

THE TWO DIVISIONS HAVE A TOTAL OF NINE AAA REGIMENTS, SIX WITH TWO 3-BATTERY UNITS EACH. ALL OF THE INSTALLATIONS ARE LOCATED ALONG, OR NEAR, RAIL LINES. TRAINING IN BOTH DIVISION AREAS IS LIGHT.

25X1

1827

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA BIIR RCS16-0001-78

JUL 78

SEC CLASS: 25E MSN:

25P

ACCN: S084659

25X1

TEREKTY ASM IMPACT AREA

WAC NO : 0235

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40J

KAPUSTIN YAR/TEREKTY TRACKING FACILITY NORTH

UR 481515N 0483140E

NPIC NO : - 39-E

COMIREX NO:

UR 4826 N 04840 E

25X1
25X1
25X1

1831
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 39-C
 IDHS CODE: KAPUSTIN YAR/TEREKTY TRACKING FACILITY WEST COMIREX NO: 481008N 0481658E
 WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO : - 39-D
 IDHS CODE: TEREKTY ASM IMPACT AREA OPERATIONS CNTRL CTR COMIREX NO: 480958N 0483624E
 WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO :
 IDHS CODE: KAPUSTIN YAR/TEREKTY TRACKING FACILITY CTRL COMIREX NO: 481355N 0482619E
 WAC NO : 0235 BE/OBJ NO: EPF CAT : 25C NPIC NO :
 IDHS CODE: COMIREX NO:

25X1
25X125X1
25X1

25X1

25X1

THE TEREKTY AIR-TO-SURFACE MISSILE (ASM) IMPACT AREA HAS SUPPORTED SHORT-RANGE FLIGHT TESTING OF VARIOUS ASMS AS PART OF THE VLADIMIROVKA/ZHAMANSOR SPECIAL TEST RANGE SINCE AT LEAST THE MID-1960S. THE IMPACT AREA CONSISTS OF BOTH ACTIVE RADAR TARGETS AND PASSIVE CORNER REFLECTOR TARGETS. CONSIDERABLE EXPANSION AND INCREASED USE OF THE FACILITIES AT TEREKTY BECAME APPARENT DURING 1975 AND CONTINUED THROUGH 1977. HIGHLIGHTS OF THIS ACTIVITY INCLUDE:

-- THE DEVELOPMENT OF A SINGLE SITE INTO A MAJOR ANTIRADIATION MISSILE (ARM) TARGET COMPLEX THROUGH THE ADDITION OF FIVE TARGET RADAR SITES BETWEEN MID-1975 AND MID-1977.

-- AN ACCELERATED LAUNCH PACE OF ASMS DIRECTED AGAINST TARGET SITES IN THE IMPACT AREA BEGINNING IN 1976. THIS IS EVIDENCED BY THE MORE THAN 40 NEW IMPACT CRATERS IDENTIFIED BETWEEN JANUARY 1976 AND OCTOBER 1977.

-- THE ADDITION OF A FOURTH PERMANENT TRACKING FACILITY AND THE EXPANSION OF THE THREE EXISTING TRACKING FACILITIES DURING 1976 AND 1977.

THIS REPORT PROVIDES AN ACCOUNT OF THE FACILITIES AND ACTIVITY AT TEREKTY SINCE 1972. ALL AVAILABLE SATELLITE PHOTOGRAPHY FROM JANUARY 1972 THROUGH OCTOBER 1977 HAS BEEN USED.

CIA IRP 1510119K-78 JUL 78 SEC CLASS: 13 MSN: 37P ACCN: 508466/25X1

MILITARY, RIVER CROSSING UNITS KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:
 MILITARY, S-TYPE PONTOON BRIDGE NEW KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:

ANALYSIS OF IMAGERY SHOWS THAT SINCE 1970 THE NORTH KOREANS HAVE VASTLY IMPROVED THE RIVER-CROSSING CAPABILITY OF THEIR GROUND FORCES. SIX NEW RIVER-CROSSING UNITS HAVE BEEN FORMED AND ALL OF THE FIVE ALREADY EXISTING UNITS HAVE BEEN EXPANDED OR PARTIALLY RE-EQUIPPED WITH NEWER EQUIPMENT. THE NUMBER OF K-61 TRACKED AMPHIBIANS IN ACTIVE RIVER-CROSSING UNITS IS ESTIMATED TO HAVE MORE THAN TRIPLED AND THE NUMBER OF PONTOONS IS ESTIMATED TO HAVE MORE THAN QUADRUPLD. NORTH KOREA'S THREE RIVER-CROSSING BATTALIONS ARE WITHIN 60 KILOMETERS OF SOUTH KOREA, AND ITS OTHER RIVER-CROSSING UNITS ARE GARRISONED WITHIN 25 KILOMETERS OF PYONGYANG. ALL BUT ONE OF THE UNITS ARE STRATEGICALLY GARRISONED NEAR MAJOR RIVER-CROSSING

25X1

1832
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

SITES.

SINCE 1974 THE TYPE OF PONTON BEING DEPLOYED HAS CHANGED -- FROM THE TRADITIONAL SOVIET-DESIGNED TMP/TPP TO THE IMPROVED DOMESTICALLY DESIGNED MODEL REFERRED TO BY DIA AS THE S-TYPE RIBBON BRIDGING PONTON. THESE NEW-TYPE PONTONS, WHICH OFFER INCREASED EFFICIENCY OVER THE OLDER TMP/TPPS, HAVE BEEN USED BOTH TO FORM NEW UNITS AND TO REPLACE MOST OF THE TMP/TPPS IN EXISTING UNITS. THE STILL TACTICALLY VALUABLE TMP/TPPS THAT HAVE BEEN REPLACED BY THE S-TYPE PONTON BRIDGES ARE PROBABLY BEING FORMED INTO OTHER NEW UNITS OR STOCKPILED AT KEY REAR-AREA RIVER-CROSSING POINTS.

25X1

NPIC	SR	SR055-78	AUG 78		SEC CLASS: 14B	MSN:	3P	ACCN: S084662	25X1	
POSTAVY MRBM COMMAND POST BKR SS-20 RLTD ACT					UR 550926N 0265413E					
WAC NO : 0168					NPIC NO : - 58-J4					25X1
IDHS CODE: []					COMIREX NO:					25X1
POSTAVY MRBM HQ RADIO RCVR BKR SS-20 RLTD ACT					UR 550910N 0265220E					
WAC NO : 0168					NPIC NO : - 58-J					25X1
IDHS CODE: []					COMIREX NO: []					25X1
SMORGON IRBM HQ RADIO RCVR BKR SS-20 RLTD ACT					UR 543120N 0261720E					
WAC NO : 0168					NPIC NO : - 68-A1					25X1
IDHS CODE: []					COMIREX NO:					25X1
SMORGON IRBM COMMAND POST BKR SS-20 RLTD ACT					UR 543202N 0261747E					
WAC NO : 0168					NPIC NO : - 68-A3					25X1
IDHS CODE: []					COMIREX NO:					25X1
POLOTSK MRBM HQ RADIO RCVR BKR SS-20 RLTD ACT					UR 552440N 0283351E					
WAC NO : 0168					NPIC NO : - 57-C2					25X1
IDHS CODE: []					COMIREX NO:					25X1
CIA	IRP	IS10118J-78	JUL 78		SEC CLASS: 25	MSN:	21P	ACCN: S084663	25X1	

1833
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

INDUSTRY, WAR DAMAGE RECONSTRUCTION
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30 COMIREX NO:
THAI NGUYEN STEEL ROLLING MILL RECONSTRUCTION VM 2133 N 10552 E
WAC NO : 0616 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30C COMIREX NO:
VIET TRI TEXTILE PLANT VM 2118 N 10526 E
WAC NO : 0616 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30D COMIREX NO:
BAC GIANG CHEMICAL FERTILIZER PLANT RECONST VM 211810N 1061225E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 238-C
IDHS CODE: EPF CAT : 30F COMIREX NO:
PHU THO CHEMICAL FERTILIZER PLANT RECONST VM 212000N 1051720E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 233
IDHS CODE: EPF CAT : 30F COMIREX NO:
VIET TRI CHEMICAL PLANT RECONSTRUCTION VM 211805N 1052505E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 262-I
IDHS CODE: EPF CAT : 30F COMIREX NO:
BAC GIANG THERMAL POWER PLANT RECONSTRUCTION VM 211810N 1061210E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 206-K2
IDHS CODE: EPF CAT : 30E COMIREX NO:
HA NOI THERMAL POWER PLANT RECONSTRUCTION VM 210235N 1055051E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 112-A1
IDHS CODE: EPF CAT : 30E COMIREX NO:
LANG CHI HYDROELECTRIC POWER PLANT RECONST VM 214446N 1050141E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 343-B
IDHS CODE: EPF CAT : 30E COMIREX NO:
THAI NGUYEN THERMAL POWER PLANT RECONST VM 213636N 1054906E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 242-G1
IDHS CODE: EPF CAT : 30E COMIREX NO:
VIET TRI THERMAL POWER PLANT RECONSTRUCTION VM 211757N 1052526E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 262-F1
IDHS CODE: EPF CAT : 30E COMIREX NO:
HA NOI TRANSFORMER SUBSTATION RECONSTRUCTION VM 210826N 1055045E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 462-N1
IDHS CODE: EPF CAT : 30E COMIREX NO:
THAI NGUYEN IRON + STEEL COMBINE RECONST VM 213337N 1055227E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 242-A
IDHS CODE: EPF CAT : 30C COMIREX NO:
THAI NGUYEN IRON ORE PROCESSING PLANT RECONST VM 213518N 1055734E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 242-B
IDHS CODE: EPF CAT : 30B COMIREX NO:

25X1

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1834

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

TINH TUC TIN MINING COMPLEX RECONSTRUCTION			VM 223935N 1055238E
WAC NO : 0616	BE/OBJ NO: []	NPIC NO :	
IDHS CODE: []	EPF CAT : 30A	COMIREX NO:	
BAI BANG PAPER PLANT			VM 212457N 1051848E
WAC NO : 0616	BE/OBJ NO: []	NPIC NO :	
IDHS CODE: []	EPF CAT : 30D	COMIREX NO:	

25X1
25X125X1
25X1

THE VIETNAMESE GOVERNMENT HAS MADE CONSIDERABLE PROGRESS IN RECONSTRUCTING DAMAGED AND DESTROYED INDUSTRIAL FACILITIES IN THE NORTH SINCE THE END OF THE BOMBINGS THERE IN JANUARY 1973. ANALYSIS OF 13 MAJOR PLANTS IMAGED ON PHOTOGRAPHY OF SEPTEMBER 1977 -- ABOUT 30 PERCENT OF THOSE CONSIDERED TO BE NORTH VIETNAM'S MAJOR INDUSTRIAL PLANTS AT THE END OF THE BOMBINGS -- SHOWS THAT THE 12 WHICH WERE DAMAGED HAVE BEEN RESTORED TO OPERATIONAL STATUS, AND THAT FIVE OF THEM HAVE BEEN EXPANDED. IN ADDITION, TWO NEW LARGE PLANTS -- A TEXTILE PLANT NEAR VIET TRI AND A PAPER PLANT UNDER CONSTRUCTION NEAR PHU THO -- WERE OBSERVED IN THE AREA COVERED BY PHOTOGRAPHY. SEVERAL SMALL PLANTS, INCLUDING TEXTILE AND GLASS PRODUCTS PLANTS, AND NUMEROUS SMALL DAMS HAVE ALSO BEEN CONSTRUCTED. ACCORDING TO INFORMATION FROM SOURCES OTHER THAN PHOTOGRAPHY, THE SOVIET UNION, CHINA, FRANCE, AND SWEDEN HAVE AIDED THE VIETNAMESE IN THEIR RECONSTRUCTION EFFORTS.

25X1

1835
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY BIIB BAC24-5002-78 SEP 78

SEC CLASS: 08M MSN:

4P

ACCN: 5084665

SHIPS, AIST CLASS LCAA MODIFIED

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 75G

COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION BRIEF (BIIB) UPDATES USAIC BASIC IMAGERY INTERPRETATION REPORT (BIIR) RAC 24/003/74, 'AIST CLASS AIR CUSHION VEHICLE,' DATED JANUARY 1974, AND PROVIDES A DETAILED DESCRIPTION OF THE LATEST MODIFICATIONS MADE TO THE CRAFT. THIS NEW CRAFT IS DESIGNATED THE MODIFIED AIST, AND IS THE LARGEST MILITARY AIR CUSHION VEHICLE USED BY THE SOVIET NAVY. MODIFICATIONS INCLUDE A NEW WEAPONS SYSTEM, ADDITIONAL ELECTRONICS, AN ELONGATED AIR INTAKE TUNNEL, AND AN ENLARGED FORWARD DECK CABIN. INFORMATION WAS DERIVED FROM TECHNICAL PUBLICATIONS, HANDHELD PHOTOGRAPHY, AND GROUND OBSERVATIONS MADE BY MILITARY ATTACHES. INCLUDED IN THIS BRIEF ARE ANNOTATED HANDHELD PHOTOGRAPHY, A LINE DRAWING, MENSURATION DATA, THE BASIC DESCRIPTION OF THE CRAFT, AND SOURCE REFERENCE DATA. INFORMATION IS CURRENT AS OF MAY 1978.

25X1

1836
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC SR SR058-78 AUG 78 [] SEC CLASS: 14B MSN: 3P ACCN: S084668 25X1

SERPUKHOV SSM ENGR RSCH/TRNG WHD MATING EXER UR 545401N 0372301E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 74-G 25X1
 IDHS CODE: [] EPF CAT : 55D COMIREX NO: [] 25X1

ACTIVITY RECENTLY OBSERVED WITHIN THE TECHNICAL TRAINING AND SUPPORT AREA AT SERPUKHOV SSM ENGINEERING RESEARCH/TRAINING FACILITY, USSR, INDICATES THAT WARHEAD MATING TRAINING WILL PROBABLY BE CONDUCTED HERE FOR THE SS-20 IRBM AND POSSIBLY THE SS-16 ICBM SYSTEMS. THE ACTIVITY INCLUDES THE CONSTRUCTION OF TWO BUILDINGS WHICH ARE ASSOCIATED WITH PAYLOAD HANDLING FOR NEW GENERATION IRBM/ICBM SYSTEMS, THE CONSTRUCTION OF AN 11-BAY, SS-16/-20-ASSOCIATED GARAGE, AND THE ONSITE ARRIVAL OF PROBABLE COMPONENTS FOR AN SS-20-ASSOCIATED, SINGLE-BAY, SLIDING-ROOF GARAGE.

CIA IRP IS10151J-78 JUL 78 [] SEC CLASS: 25 MSN: 27P ACCN: S084669 25X1

MILITARY, ARMORED FORCES EXPANSION 1970-1977 KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT DESCRIBES CHANGES OBSERVED ON OVERHEAD PHOTOGRAPHY IN THE TANK, ASSAULT GUN, AND APC INVENTORY OF THE NORTH KOREAN ARMY SINCE 1970. IT IS BASED ON A DETAILED EXAMINATION OF REPETITIVE

1837
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

PHOTOGRAPHIC COVERAGE OF ALL KNOWN NKA ARMOR UNITS. FOR THE 1970-75 PERIOD, AT LEAST ONE PHOTOGRAPHIC COVERAGE FROM EACH YEAR OF NEARLY ALL ARMORED UNITS WAS EXAMINED. FOR 1976 AND 1977, ALL PHOTOGRAPHIC COVERAGE ACQUIRED OF ARMOR UNITS WAS EXAMINED.

THE LOCATIONS OF ARMORED UNITS WERE DERIVED FROM THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER'S INSTALLATIONS DATA FILE, THE DEFENSE INTELLIGENCE AGENCY ORDER OF BATTLE, THE US ARMY INTELLIGENCE AND SECURITY COMMAND ORDER OF BATTLE, AND INFORMATION FROM THE OFFICE OF IMAGERY ANALYSIS FILES.

ALTHOUGH ALL KNOWN SOURCES WERE USED TO COMPILE THE LOCATIONS OF ARMORED UNITS, IT IS POSSIBLE THERE ARE SOME UNITS THAT HAVE NOT BEEN LOCATED. DURING THE COURSE OF THIS STUDY IT WAS FOUND THAT A NUMBER OF ARMORED UNITS HAD EXISTED FOR SEVERAL YEARS BEFORE THEY WERE DETECTED; THEREFORE, IT IS POSSIBLE THAT SOME UNITS FORMED DURING THE LAST FEW YEARS REMAIN UNDETECTED. IN ADDITION, PRODUCTION ESTIMATES OF T-54/55 TYPE TANKS FOR 1975 THROUGH 1977 AT NORTH KOREA'S KUSONG TANK PLANT ARE GREATER THAN THE INCREASE OBSERVED IN NORTH KOREA'S ARMORED FORCE DURING THE SAME PERIOD OF TIME. CONSEQUENTLY, THE ESTIMATE OF THE 1977 ARMOR INVENTORY IN THE NKA MAY BE LOW--POSSIBLY ON THE ORDER OF SEVERAL HUNDRED ARMORED VEHICLES.

25X1

1838
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO

05 OCT 78

SEC CLASS: 13

MSN:

2P

ACCN: S084673

25X1

SARY SHAGAN MTC CPLX 6 SQUARE PAIR ANT SEARCH

WAC NO : 0245

BE/OBJ NO:

UR 455149N 0732352E

NPIC NO : - 78-A

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

SARY SHAGAN MTC ELECTRONICS TEST FAC ANT SRCH

UR 455100N 0733500E

WAC NO : 0245

BE/OBJ NO:

NPIC NO : - 34-D2

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

25X1
25X1

25X1
25X1
25X1

1839
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESSE RUFF

25X1

25X1

NPIC IIR IIR053-78 07 AUG 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: S084678 25X1

LENINGRAD SHIPYARD ZHDANOV 190B CL COMBATANT UR 595233N 0301406E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-K 25X1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: [] 25X1
SHIPS, 190B CLASS COMBATANT NEW U/C UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

[] A NEW PROBABLE FRIGATE-SIZED COMBATANT WAS OBSERVED UNDER CONSTRUCTION ON BUILDINGWAY 64C, LENINGRAD SHIPYARD ZHDANOV 190. THIS VESSEL MEASURES APPROXIMATELY 111 BY 15 METERS AND APPEARS TO HAVE TWO RECTANGULAR PROBABLE ENGINE COMPARTMENTS SEPARATED BY A LONGITUDINAL BULKHEAD JUST FORWARD OF AMIDSHIPS. THE NPIC INTERIM DESIGNATOR 190B HAS BEEN ASSIGNED TO THIS UNIT TO FACILITATE REPORTING.* 25X1

NPIC IIR IIR052-78 07 AUG 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: S084679 25X1

ZELENODOLSK SHIPYARD 340 KONI CLASS FF6 U/C UR 555011N 0483008E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 34-B 25X1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: [] 25X1

ON IMAGERY OF ZELENODOLSK SHIPYARD 340, USSR, [] THE THIRD UNIT OF THE KONI FRIGATE (FF) WAS OBSERVED FITTING-OUT AND A POSSIBLE FOURTH UNIT WAS UNDER CONSTRUCTION. THE KONI FF IS A SOVIET-BUILT FRIGATE, [] WITH AN SA-N-4 AND TWO 76MM DUAL-PURPOSE GUNS.* 25X1

25X1

1841
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE FIRST TIME AT BROVARY ARMY BARRACKS AL-1 IN THE KIEV MILITARY DISTRICT, USSR. FOURTEEN OF THE NEW VEHICLES WERE PARKED WITH FIVE M-1972 BTR-50PK MINECLEARERS IN THE ENGINEER REGIMENT/BRIGADE AREA.

NPIC SR SR060-78 AUG 78 SEC CLASS: 14B MSN: 3P ACCN: S084681 25X1

KAPUSTIN YAR MTC ANT MASTS SS-20 ASSOC IDENT UR 483555N 0461752E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-S2
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1
25X1

AT KAPUSTIN YAR MEDIUM RANGE TEST COMPLEX C SITE 2, FIVE ANTENNA MASTS WERE IDENTIFIED FOR THE FIRST TIME DEPLOYED WITH SS-20 MOBILE MISSILE EQUIPMENT. THESE MASTS WERE APPROXIMATELY 15 METERS HIGH AND APPEARED TO BE DEPLOYED IN SETS OF TWO AND THREE. THE DEPLOYED SETS OF ANTENNA MASTS DO NOT CONFORM TO KNOWN HIGH-FREQUENCY (HF) ANTENNA CONFIGURATIONS AND NO UHF/VHF ANTENNAS COULD BE DISCERNED ON THE INDIVIDUAL MASTS. ONE MAST IN EACH SET WAS ERECTED IN A CLEARING APPROXIMATELY 25 METERS FROM THE NEAREST VEHICLE AND THE OTHER MASTS IN THE SETS WERE APPARENTLY ATTACHED TO THE REAR OF VAN TRUCKS OR ADJACENT VEHICLES. CABLES CONNECTED THE VEHICLES HAVING ANTENNA MASTS TO OTHER SS-20-ASSOCIATED VEHICLES, BUT NO DEFINITE PATTERN WAS IDENTIFIED. THE ONLY OTHER COMMUNICATIONS EQUIPMENT IDENTIFIED WITH THE MOBILE MISSILE EQUIPMENT AT THIS SITE WAS AN R-133 TWIN EAR ANTENNA, WHICH HAS BEEN PREVIOUSLY ASSOCIATED WITH THE SS-20 MOBILE MISSILE SYSTEM.

25X1

NPIC SR SR057-78 AUG 78 SEC CLASS: 14D MSN: 5P ACCN: S084682 25X1

KEMEROVO SOLID MOTOR PRODUCTION PLANT U/C UR 552500N 0855828E
WAC NO : 0161 BE/OBJ NO: NPIC NO : - 10-L
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

A NEW PROBABLE SOLID MOTOR PRODUCTION PLANT WAS OBSERVED UNDER CONSTRUCTION WITHIN THE KEMEROVO SOLID PROPELLANT PRODUCTION COMPLEX, USSR. IT IS APPROXIMATELY 1 NAUTICAL MILE EAST OF THE EXISTING SOLID MOTOR PRODUCTION PLANT. THIS NEW PLANT IS DOUBLE FENCE SECURED AND WILL BE ROAD AND RAIL SERVED WHEN COMPLETED. THE KEMEROVO COMPLEX CURRENTLY PRODUCES SINGLE-BASE PROPELLANT AND COMPOSITE SOLID PROPELLANTS FOR ROCKET MOTORS. IT IS TOO EARLY TO DETERMINE THE KIND OF PROPELLANTS WHICH WILL BE PRODUCED WITHIN THIS NEW PLANT AND THE DIRECTION OF PRODUCTION FLOW.

25X1

25X1

1842
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
ZSAI

25X1

NPIC MEMO

16 AUG 78

SEC CLASS: 14R MSN:

2P

ACCN: 5084690

25X1

SOROKI RADIO RELAY + TV STATION

UR 480915N 0281630E

1843
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0233 BE/OBJ NO: NPIC NO : - 161-A
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

THIS MEMO DESCRIBES THE TYPES AND ORIENTATIONS OF ANTENNAS AT SOROKI RADIO RELAY STATION.

25X1

25X1

NPIC MEMO 16 AUG 78 SEC CLASS: 14B MSN: 2P

ACCN: S0846925X1

NOVOSIBIRSK RADIO RELAY/TV/FM BROADCAST CTR UR 545852N 0825250E
WAC NO : 0162 BE/OBJ NO: NPIC NO : - 8-A3
IDHS CODE: EPF CAT : 25D COMIREX NO:
NOVOSIBIRSK RADIO RELAY/TV/FM BROADCAST CTR UR 545852N 0825250E
WAC NO : 0162 BE/OBJ NO: NPIC NO : - 8-A3
IDHS CODE: EPF CAT : 25B COMIREX NO:

25X1

25X1

25X1

25X1

THIS MEMO DESCRIBES NOVOSIBIRSK RADIO RELAY AND TV AND FM BROADCASTING CENTER. THE CENTER CONSISTS OF A
SELF-SUPPORTING LATTICE TV TOWER WITH ONE R-600-2MV ARRAY.

25X1

25X1

NPIC MEMO 16 AUG 78 SEC CLASS: 14B MSN: 2P

ACCN: S0846925X1

MYS KEKURSKIY AW RADAR FACILITY SHOCK SING UR 695550N 0315730E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 53
IDHS CODE: EPF CAT : 25A COMIREX NO:
MYS NEMETSKIY SUB DETECTION TML SHOCK SING UR 695549N 0315823E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 53-A
IDHS CODE: EPF CAT : 25A COMIREX NO:
MYS NEMETSKIY SUB DETECTION TML SHOCK SING UR 695549N 0315823E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 53-A
IDHS CODE: EPF CAT : 25I COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

WAS REVIEWED TO LOCATE THE SHOCK SING
RADAR IN RELATIONSHIP TO MYS KEKURSKIY AND MYS NEMETSKIY TO PROVIDE A CURRENT READOUT OF RADAR,
COMMUNICATIONS ANTENNAS, ROADS, AND CABLES ASSOCIATED WITH THE SHOCK SING.*

NPIC MEMO 17 AUG 78 SEC CLASS: 14B MSN: 2P

ACCN: S0846925X1

DANILOV RADIO RELAY STATION UR 581028N 0401100E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 161
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

25X1

THIS MEMO GIVES A DESCRIPTION AND THE TYPES OF ANTENNAS AT DANILOV RADIO RELAY STATION.

25X1

1844
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NPIC MEMO

17 AUG 78

SEC CLASS: 14B

MSN:

2P

ACCN: 5084694

25X1

DZHEMIKENT RADIO RELAY STATION

WAC NO : 0325

BE/OBJ NO:

UR 421422N 0480302E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 158

COMIREX NO:

25X1
25X1

25X1

1845
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

ARMY BIIR RAC24-0003-78 MAY 78 SEC CLASS: 14BY MSN: 48P ACCN: S08469725X1

MILITARY, 107MM MULTIPLE ROCKET LNCHR 12-TUBE	KN	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BM-11 122MM MULTIPLE ROCKET LNCHR	KN	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BM-11/21 MULTIPLE ROCKET LAUNCHER	KN	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, M-1977 MULTIPLE RKT LNCHR 12-TUBE	KN	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BM-13 132MM MULTIPLE ROCKET LNCHR	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :

25X1

25X1

25X1

25X1

25X1

1846
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
ZDAI

IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BM-14/16 140MM MULTIPLE RKT LNCHR	BE/OBJ NO: []	UR
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BMD-20 200MM MULTIPLE ROCKET LNCHR	BE/OBJ NO: []	UR
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, BM-24 240MM MULTIPLE ROCKET LNCHR	BE/OBJ NO: []	UR
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, MULTIPLE ROCKET LAUNCHERS	BE/OBJ NO: []	KN
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:

25X1

25X1

25X1

THE PURPOSE OF THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) IS TO PROVIDE CURRENT INFORMATION ON THE FOLLOWING NORTH KOREAN INDIGENOUSLY PRODUCED MULTIPLE ROCKET LAUNCHERS (MRL'S): THE 107MM TOWED MRL; THE BM-11 AND ITS TWO VARIANTS, THE BM-11/21 (CHAJUHO) AND THE BM-11/21 (SUNGNI-1010); AND THE MRL M-1977.

THE REPORT CONTAINS A BASIC DESCRIPTION OF EACH MRL, IDENTIFICATION FEATURES, AND LOCATIONS OF ASSEMBLY/PRODUCTION. ALSO INCLUDED IS A RECOGNITION GUIDE FOR SOVIET MRL'S KNOWN TO BE DEPLOYED IN NORTH KOREA. THE BIIR CONSISTS OF TEXT, REFERENCE DATA, ANNOTATED PHOTOGRAPHS, LINE DRAWINGS, ARTISTS' CONCEPTS, SIZE COMPARISON CHART, AND A MAP. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 31 MARCH 1978.

ARMY BIIR RAC24-5004-78 JUL 78 SEC CLASS: 08B MSN: 12P ACCN: 5084698

MILITARY, TATRA-148 CARGO TRUCK 6X6	BE/OBJ NO: []	CZ
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, TATRA-148S1 DUMP TRUCK 6X6	BE/OBJ NO: []	CZ
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
MILITARY, TATRA-148S3 DUMP TRUCK 6X6	BE/OBJ NO: []	CZ
WAC NO :	EPF CAT : 35E	NPIC NO :
IDHS CODE:	EPF CAT : 35E	COMIREX NO:

25X1

25X1

25X1

THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) PROVIDES INFORMATION ON THE CZECHOSLOVAKIAN TATRA 148 SERIES OF TRUCKS, WITH EMPHASIS ON THE TATRA 148, 6X6, CARGO TRUCK USED BY THE CZECHOSLOVAKIAN MILITARY FORCES.

THIS REPORT, BASED ON HANDHELD PHOTOGRAPHY AND DOCUMENTED REPORTS, INCLUDES A BASIC AND PHYSICAL DESCRIPTION, ANNOTATED PHOTOGRAPHS, A TABLE OF CHARACTERISTICS, AND A LINE DRAWING WITH DIMENSIONS OF THE TATRA 148, 6X6, CARGO TRUCK. THE INFORMATION IS CURRENT AS OF 15 MAY 1978.

25X1

1847
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	NBRG	NDA06-5082-77	18 AUG 78	SEC CLASS: 05B	MSN:	1P	ACCN: S084703
SEVASTOPOL NAVAL FACILITIES APPROACHES EAST				UR	443700N 0333600E		
WAC NO : 0250				BE/OBJ NO:			25X1
IDHS CODE:				EPF CAT : 75	COMIREX NO:		25X1
DIA	NBRG	NDA06-5083-77	18 AUG 78	SEC CLASS: 05B	MSN:	1P	ACCN: S084704
SEVASTOPOL SHIP REPAIR YARD PANAIOTOVA GUBA				UR	443745N 0333306E		
IDHS CODE:				EPF CAT : 75E	COMIREX NO:		25X1
DIA	NBRG	NDA06-5084-77	18 AUG 78	SEC CLASS: 05B	MSN:	1P	ACCN: S084705
SEVASTOPOL NAVAL BASE/SHIPYARD KILENBALOCHNAY				UR	443655N 0333318E		
WAC NO : 0250				BE/OBJ NO:			25X1
IDHS CODE:				EPF CAT : 75B	COMIREX NO:		25X1
SEVASTOPOL NAVAL BASE/SHIPYARD KILENBALOCHNAY				UR	443655N 0333318E		

1848
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1WAC NO : 0250
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75ENPIC NO : - 62-04
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA06-5086-77 18 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: 5084706

SEVASTOPOL NAVAL MISSILE SUPPORT FACILITY

WAC NO : 0250
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 406UR 443733N 0333321E
NPIC NO : - 62-C7
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA06-5086-77 18 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: 5084707

SEVASTOPOL NAVAL MISSILE + TORPEDO STORAGE

WAC NO : 0250
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 406UR 443732N 0333501E
NPIC NO : - 62-0
COMIREX NO: [REDACTED]25X1
25X1

SEVASTOPOL NAVAL MISSILE + TORPEDO STORAGE

WAC NO : 0250
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75HUR 443732N 0333501E
NPIC NO : - 62-0
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA06-5129-77 18 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: 5084708

KRONSTADT NAVAL FACILITIES APPROACHES

WAC NO : 0153
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75UR 5959 N 02946 E
NPIC NO :
COMIREX NO:25X1
25X1

DIA NBRG NDA06-5130-77 17 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: 5084709

KRONSTADT NAVAL BASE + SHIPYARD

WAC NO : 0153
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75EUR 595910N 0294618E
NPIC NO : - 31
COMIREX NO: [REDACTED]25X1
25X1

KRONSTADT NAVAL BASE + SHIPYARD

WAC NO : 0153
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75BUR 595910N 0294618E
NPIC NO : - 31
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA06-5125-77 17 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: 5084710

GDANSK SHIPYARD NORTH STOCZNIA POLNOCA

WAC NO : 0169
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 75EPL 542207N 0183844E
NPIC NO : - 37-F
COMIREX NO: [REDACTED]25X1
25X1

DIA NBRG NDA06-5131-77 17 AUG 78

SEC CLASS: 05G MSN:

1P

ACCN: 5084711

VLADIVOSTOK SHIPYARD ULIS BUKHTA

WAC NO : 0291

BE/OBJ NO: [REDACTED]

UR 430504N 1315525E
NPIC NO : - 48-S3

25X1

1849

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IOHS CODE: EPF CAT : 75E COMIREX NO:

25X1

DIA NBRG NDA06-5132-77 17 AUG 78

SEC CLASS: 056 MSN:

1P

ACCN: S084712

MAGADAN SUBMARINE BASE + SHIP REPAIR YARD

UR 593218N 1504630E

WAC NO : 0131

BE/OBJ NO:

NPIC NO : - 1-1

IOHS CODE:

EPF CAT : 75A

COMIREX NO:

MAGADAN SUBMARINE BASE + SHIP REPAIR YARD

UR 593218N 1504630E

WAC NO : 0131

BE/OBJ NO:

NPIC NO : - 1-1

IOHS CODE:

EPF CAT : 75E

COMIREX NO:

25X1

25X1

25X1

25X1

DIA IIM 5B1-58830-78 09 AUG 78

SEC CLASS: 14 MSN:

3P

ACCN: S084712

MURMANSK AVTOKOLONNA 1505

UR 685727N 0330443E

WAC NO : 0051

BE/OBJ NO:

NPIC NO :

IOHS CODE:

EPF CAT : 85A

COMIREX NO:

DIA IIM 5B3-58856-78 15 AUG 78

SEC CLASS: 13 MSN:

1P

ACCN: S084712

KUZNICA RAILROAD TRANSLOADING YD NUC ACT SRCH

PL 533103N 0233852E

WAC NO : 0168

BE/OBJ NO:

NPIC NO : - 39

IOHS CODE:

EPF CAT : 85B

COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1850
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-58867-78 17 AUG 78 [] SEC CLASS: 14 MSN: [] 4P ACCN: S084718 25X1
OSTRODA MILITARY STORAGE AREA NORTH PL 534400N 0195700E
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1

DIA IIM 5B3-58862-78 17 AUG 78 [] SEC CLASS: 14 MSN: [] 4P ACCN: S084719 25X1
LEGNICA QUARTERMASTER STORAGE FACILITY 532 PL 511340N 0160953E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1

DIA IIM 5B1-58836-78 10 AUG 78 [] SEC CLASS: 13 MSN: [] 13P ACCN: S084720 25X1
KOLOMNA ORDNANCE STGE FAC HELI WPNS TEST RNGE UR 550220N 0385048E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 134-B 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B1-58673-78 17 JUL 78 [] SEC CLASS: 14R MSN: [] 12P ACCN: S084721 25X1
ZAVITINSK MILITARY TRNG AREA 1 HELI WPNS RNGE UR 500602N 1295301E
WAC NO : 0203 BE/OBJ NO: [] NPIC NO : - 31-H 25X1
IDHS CODE: [] EPF CAT : 35H COMIREX NO: [] 25X1

25X1

CIA INFR [] 08 AUG 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S084724 25X15X1
MISSILES, SS-N-5 DIMENSIONS UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 40G COMIREX NO: []

CIA INFR 1S10181K-78 03 AUG 78 [] SEC CLASS: 13 MSN: [] 8P ACCN: S084725 25X1
MILITARY, T-72 TANK PROD PROBLEMS 1977-1978 UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []
NIZHNIY TAGIL RAILROAD CAR MFG PLT T-72 PROD UR 575548N 0600526E

1851

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 17-A
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: []
 NIZHNIY TAGIL RAILROAD CAR PLT T-72 TANK PROD UR 575548N 0600526E
 WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 17-A
 IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1
25X1
25X1
25X1

THE SOVIETS ARE EXPERIENCING PRODUCTION PROBLEMS WITH THE T-72 TANK. THESE PROBLEMS MAY BE RELATED TO MANUFACTURING PROBLEMS AT NIZHNIY TAGIL RAILROAD CAR MANUFACTURING PLANT KAGANOVICH 183, WHICH PRODUCES THE T-72, OR THEY COULD BE THE RESULT OF COMPONENTS PRODUCTION PROBLEMS AT ANOTHER PLANT. NIZHNIY TAGIL 183 BEGAN PRODUCING THE T-72 IN MID-1974 AND IT IS STILL THE ONLY KNOWN T-72 TANK PRODUCTION PLANT. ALTHOUGH THIS PLANT ACHIEVED ESTIMATED DAILY PRODUCTION RATES OF MORE THAN FIVE TANKS A DAY IN 1977 AND OVER SEVEN TANKS A DAY IN 1978, WE HAVE ALSO SEEN PERIODS OF NEGLIGIBLE TO ZERO PRODUCTION FIVE TIMES IN 1977 AND TWICE IN 1978. ONE OF THE LOW PRODUCTION PERIODS IN 1978 LASTED FOR 41 DAYS. THESE DISRUPTIONS WOULD HAVE REDUCED T-72 PRODUCTION IN 1977 AND WILL ALSO SUBSTANTIALLY REDUCE 1978 PRODUCTION FROM THE OUTPUT THAT COULD HAVE BEEN ACHIEVED IF THE HIGHEST ESTIMATED DAILY PRODUCTION RATES HAD BEEN MAINTAINED THROUGHOUT THE YEAR. THIS REPORT CONTAINS TABLES WHICH LIST THE DATES OF INTERPRETABLE IMAGERY OF NIZHNIY TAGIL 183 IN 1977 AND 1978 AND THE ESTIMATED DAILY PRODUCTION RATE WHEN IT WAS POSSIBLE TO DETERMINE.*

CIA INFR IS10197K-78 04 AUG 78 [] SEC CLASS: 13 MSN: 4P ACCN: 50847225X1

TINDOUF SAHARAN REFUGEE CAMPS AG 2740 N 00809 W
 WAC NO : 0537 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 10A COMIREX NO: []
 AOUINET BEL EGRA SAHARAN REFUGEE CAMPS AG 2650 N 00651 W
 WAC NO : 0537 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 10A COMIREX NO: []

25X1
25X1

REFUGEES WHO FLED SPANISH SAHARA FOLLOWING THE 1975 MOROCCAN AND MAURITANIAN OCCUPATION OF THIS FORMER SPANISH COLONY ARE PRESENTLY SETTLED IN LARGE TENT CAMPS IN SOUTHWESTERN ALGERIA. SEVEN CAMPS WITH OVER 3, 500 TENTS ARE NEAR THE TOWN OF TINDOUF. TWO CAMPS WITH 960 TENTS ARE AT AOUINET BEL EGRA, AN OASIS APPROXIMATELY 160 KILOMETERS SOUTHEAST OF TINDOUF. ASSUMING THAT EACH TENT CONTAINS FROM FIVE TO EIGHT PEOPLE, THE REFUGEE POPULATION AT TINDOUF COULD RANGE FROM 17,500 TO MORE THAN 28,000 AND AT AOUINET BEL EGRA FROM 4,800 TO 7,700.

CIA INFR IS10183K-78 27 JUL 78 [] SEC CLASS: 13 MSN: 9P ACCN: 50847225X1

YUGO KONEVO GEOPHYSICAL EXPMT SITE MHD GENR UR 560733N 0611535E
 WAC NO : 0156 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 65A COMIREX NO: []

A SOVIET GEOPHYSICAL EXPERIMENT THAT INVOLVES THE USE OF A ROCKET-MOTOR-DRIVEN MAGNETOHYDRODYNAMIC (MHD) GENERATOR HAS BEEN IDENTIFIED IN THE URAL MOUNTAINS AT A SITE ABOUT 80 KILOMETERS SOUTHEAST OF SVERDLOVSK.

1852
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CIA INFR IS10187K-78 08 AUG 78 [] SEC CLASS: 13 MSN: 15P ACCN: S084728 25X1

AIRCRAFT, COOT IL-18 NOSE EXTENSION MODIFS UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, COOT IL-18 BOAT-SHAPED ELCT MODIFS UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:

MODIFIED COOT (IL-18) ARE SUSPECTED TO BE A SOURCE OF SIGNALS RELATED TO SURFACE SEARCH RADARS USED AS SEEKERS FOR ANTISHIP MISSILES. OIA HAS ATTEMPTED TO DETERMINE THE HISTORY OF THESE MODIFIED COOT AIRCRAFT THAT WERE BEING USED FOR TEST PLATFORMS FOR CRUISE MISSILE SEEKERS--WITH PARTICULAR ATTENTION GIVEN TO THE ACTIONS OF THREE COOT MODIFIED WITH NOSE EXTENSIONS. THE MODIFIED COOT WERE OBSERVED AT RAMENSKOYE, AKHTUBINSK, ARKHANGELSK-KHOLM, PUSHKIN, MOSCOW-SHCHELKOV, AND SEVEROMORSK AIRFIELDS. OIA ALSO SEARCHED SEVERAL OTHER SOVIET AND EAST EUROPEAN AIRFIELDS WHERE UNUSUAL COOT SIGHTINGS HAD BEEN REPORTED; HOWEVER, OIA FOUND THE THREE MODIFIED COOT BASED ONLY AT THE ABOVE FIELDS.

IN ADDITION, OIA HAS EXPANDED THIS ANALYSIS TO INCLUDE ANOTHER SERIES OF COOT BASED AT TYURATAM AIRFIELD THAT HAVE BEEN MODIFIED BY HAVING LARGE BOAT-SHAPED ELECTRONICS PACKAGES MOUNTED ATOP THEIR FUSELAGES ABOVE THE WINGS. THEY HAVE BEEN OBSERVED AT SIX AIRFIELDS OF WHICH FOUR HAVE A HISTORY OF MISSILE-RELATED PROJECTS. INCLUDING TYURATAM, THESE AIRFIELDS INCLUDE ALL THE AFOREMENTIONED AIRFIELDS, WITH THE EXCEPTION OF PUSHKIN AND SEVEROMORSK, PLUS PETROPALOVSK-YELIZOVO AIRFIELD.

CIA INFR IS10208K-78 11 AUG 78 [] SEC CLASS: 14 MSN: 7P ACCN: S084728 25X1

MILITARY, GROUND FORCES O/R YS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
HISN AL ABR MILITARY ACTIVITY YS 1608 N 04715 E
WAC NO : 0668 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35 COMIREX NO:
KHAWR AL Umayrah INFANTRY BATTALIONS YS 124100N 0440740E
WAC NO : 0687 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1
AL KIRSH INFANTRY BATTALION YS 132150N 0442925E
WAC NO : 0687 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1
AD DALI INFANTRY BATTALIONS YS 134600N 0444340E
WAC NO : 0687 BE/OBJ NO: NPIC NO : 30-B 25X1
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1
SUGUTRA ISLAND MILITARY ACTIVITY YS 1238 N 05354 E
WAC NO : 0686 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 35 COMIREX NO:

1853

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AL ANAD INFANTRY BRIGADE
WAC NO : 0687 BE/OBJ NO: NPIC NO : 1310 N 04450 E
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1

BARIM ISLAND MILITARY ACTIVITY
WAC NO : 0687 BE/OBJ NO: NPIC NO : 1239 N 04324 E
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1

THAMUD MILITARY ACTIVITY
WAC NO : 0669 BE/OBJ NO: NPIC NO : 1721 N 04958 E
IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1

AL GHAYDAH MILITARY CAMP INFANTRY BATTALIONS
WAC NO : 0669 BE/OBJ NO: NPIC NO : 161150N 0521120E
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

SALAH AL DIN MILITARY BARRACKS
WAC NO : 0687 BE/OBJ NO: NPIC NO : 1245 N 04452 E
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

MUKAYKIS MILITARY BARRACKS INFANTRY BRIGADE
WAC NO : 0687 BE/OBJ NO: NPIC NO : 135532N 0454000E
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

BAYHAN AL QISAB MILITARY BARRACKS INF BRIGADE
WAC NO : 0687 BE/OBJ NO: NPIC NO : 144712N 0454306E
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

ATAG MILITARY CAMP HQ INFANTRY BRIGADE
WAC NO : 0687 BE/OBJ NO: NPIC NO : 143237N 0464925E
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

THIS STUDY PROVIDES AN UPDATE OF A PREVIOUS OIA STUDY OF SOUTH YEMENI GROUND FORCES ORDER OF BATTLE, PUBLISHED IN FEBRUARY 1978. IT IDENTIFIES MAJOR ELEMENTS OF NINE INFANTRY BRIGADES AND SPECULATES THAT A TENTH IS BEING FORMED. IT ALSO IDENTIFIES A REINFORCED INFANTRY BATTALION ON PERIM ISLAND, A REINFORCED INFANTRY BATTALION ON SOCOTRA ISLAND, AND A TRAINING BRIGADE AT LITTLE EDEN.*

CIA INFR IS10209K-78 14 AUG 78 SEC CLASS: 13 MSN: 3P ACCN: S08473125X1

TYURATAM MTC ICBM SITE L3 TYPE 3H SILO MODIF
WAC NO : 0246 BE/OBJ NO: NPIC NO : 460425N 0630503E
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1

IN JULY 1977 THE SOVIETS BEGAN DISMANTLING THE TYPE IIID SILO AT TYURATAM MISSILE TEST CENTER SITE L3 - A FORMER SS-11 TROOP TRAINING SILO. BY LATE JUNE 1978, CONVERSION OF THE L3 SILO TO A MODIFIED TYPE IIH HAD BEEN COMPLETED AND THE SITE SUPPORT FACILITIES SHOULD BE COMPLETED SOON. L3 WILL BE THE SIXTH SS-17 LAUNCH SITE AND THE SECOND MODIFIED TYPE IIH SILO TO BE IDENTIFIED AT TYURATAM.*

CIA INFR IS10195K-78 14 AUG 78 SEC CLASS: 13 MSN: 15P ACCN: S08473125X1

1854
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ELECTRONICS, HF BROADCAST FACS JAMMING POSS
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 25B
 ELECTRONICS, VERTICAL RADIATOR ANTENNA ARRAY
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 25
 ELECTRONICS, LINEAR ANTENNA ARRAY LONG
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 25
 ELECTRONICS, CO-PHASED HORIZ DIPOLE CURTAIN
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 25
 ANGARSK RADIO COMMO/AM BDCST XMTR STATION SW
 WAC NO : 0200 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 KURGAN TYUBE RADIO COMMO + AM BDCST XMTR STA
 WAC NO : 0336 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 KRUCHINA RADIO COMMUNICATIONS/BDCST XMTR STA
 WAC NO : 0201 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 KRUCHINA RADIO COMMUNICATIONS/BDCST XMTR STA
 WAC NO : 0201 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25B
 KAMO RADIO RELAY/RADCOM/AM BROADCAST XMTR STA
 WAC NO : 0325 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 KAMO RADIO RELAY/RADCOM/AM BROADCAST XMTR STA
 WAC NO : 0325 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25B
 TBILISSKAYA RADIO COMMO + AM BDCST XMTR STA
 WAC NO : 0249 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 TBILISSKAYA RADIO COMMO + AM BDCST XMTR STA
 WAC NO : 0249 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25B
 KRASNOYE RADIO COMMO + AM BROADCAST XMTR STA
 WAC NO : 0232 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25D
 KRASNOYE RADIO COMMO + AM BROADCAST XMTR STA
 WAC NO : 0232 BE/OBJ NO:
 IDHS CODE: EPF CAT : 25B
 KURGAN TYUBE RADIO COMMO + AM BDCST XMTR STA

UR
 NPIC NO :
 COMIREX NO:
 UR
 NPIC NO :
 COMIREX NO:
 UR
 NPIC NO :
 COMIREX NO:
 UR
 NPIC NO :
 COMIREX NO:
 UR 522525N 1034013E
 NPIC NO : - 1-H
 COMIREX NO:
 UR 373110N 0684757E
 NPIC NO : - 17-B
 COMIREX NO:
 UR 514957N 1134300E
 NPIC NO : - 24-C
 COMIREX NO:
 UR 514957N 1134300E
 NPIC NO : - 24-C
 COMIREX NO:
 UR 402452N 0451136E
 NPIC NO : - 118
 COMIREX NO:
 UR 402452N 0451136E
 NPIC NO : - 11A
 COMIREX NO:
 UR 452824N 0400005E
 NPIC NO : - 19-J
 COMIREX NO:
 UR 452824N 0400005E
 NPIC NO : - 19-J
 COMIREX NO:
 UR 495401N 0243939E
 NPIC NO : - 95-I
 COMIREX NO:
 UR 495401N 0243939E
 NPIC NO : - 95-I
 COMIREX NO:
 UR 373110N

25X1
25X15X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X15X1

25X1

1855

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

WAC NO : 0336 BE/OBJ NO: NPIC NO : - 17-B
IDHS CODE: EPF CAT : 25H COMIREX NO:
NIKOLAYEV RADIO COMMO + AM BROADCAST XMTR STA UR 464858N 0321252E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 46-L
IDHS CODE: EPF CAT : 25D COMIREX NO:
NIKOLAYEV RADIO COMMO + AM BROADCAST XMTR STA UR 464858N 0321252E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 46-L
IDHS CODE: EPF CAT : 25B COMIREX NO:

THE LARGE ANTENNA SYSTEMS AT SOME SOVIET HIGH-FREQUENCY (HF) BROADCAST FACILITIES COULD POSSIBLY HAVE A MILITARY HF JAMMING MISSION IN ADDITION TO THEIR PRIMARY MISSION OF INTERNATIONAL BROADCASTS. THIS REPORT UPDATES INFORMATION ON THE TYPES AND ORIENTATIONS OF COPHASED HORIZONTAL DIPOLE CURTAIN ARRAYS, VERTICAL RADIATORS, AND LONG LINEAR ARRAYS AT SEVEN SOVIET INTERNATIONAL BROADCAST STATIONS.

CIA INFR IS10189K-78 25 JUL 78 SEC CLASS: 13 MSN: 11P

ACCN: S08473125X1

SHIPS, SUBMARINE PRODUCTION FEB 1976/MAY 1978 CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:
HULUTAU NAVAL BASE/SHIPYARD/PORT SUB PROD CH 404309N 1205939E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 14-C
IDHS CODE: EPF CAT : 75B COMIREX NO:
HULUTAU NAVAL BASE/SHIPYARD/PORT SUB PROD CH 404309N 1205939E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 14-C

1856
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
HULUTAO NAVAL BASE/SHIPYARD/PORT SUB PROD		CH 404309N 1205939E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 14-C	25X1
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	25X1
SHANGHAI SHIPYARD KIANGNAN SUBMARINE PROD		CH 311205N 1212901E	
WAC NO : 0492	BE/OBJ NO: []	NPIC NO : - 28-R	25X1
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
WUHAN SHIPYARD WUCHANG SUBMARINE PRODUCTION		CH 303158N 1141713E	
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 38-A	25X1
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
HUANGPU NAVAL BASE + SHIPYARD SUBMARINE PROD		CH 230510N 1132442E	
WAC NO : 0614	BE/OBJ NO: []	NPIC NO : - 2-B	25X1
IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []	25X1
HUANGPU NAVAL BASE + SHIPYARD SUBMARINE PROD		CH 230510N 1132442E	
WAC NO : 0614	BE/OBJ NO: []	NPIC NO : - 2-B	25X1
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
KUANGCHI SHIPYARD TRUCK PRODUCTION		CH 294940N 1153040E	
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 116-A	25X1
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
KUANGCHI SHIPYARD TRUCK PRODUCTION		CH 294940N 1153040E	
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 116-A	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1

THIS MEMORANDUM PRESENTS AN ANALYSIS OF SUBMARINE PRODUCTION ACTIVITY OBSERVED ON SATELLITE IMAGERY OF FIVE CHINESE SHIPYARDS FROM FEBRUARY 1976 THROUGH EARLY MAY 1978. THESE FIVE SHIPYARDS ARE HU-LU-TAO NAVAL BASE AND SHIPYARD, SHANG-HAI SHIPYARD KIANG-NAN, WU-HAN SHIPYARD WU-CHANG, HUANG-PU NAVAL BASE AND SHIPYARD, AND KUANG-CHI SHIPYARD. CHRONOLOGICAL SUMMARIES OF SUBMARINE PRODUCTION AT SHANG-HAI SHIPYARD KIANG-NAN AND WU-HAN SHIPYARD WU-CHANG ARE ALSO INCLUDED. THIS MEMORANDUM UPDATES PREVIOUS MEMORANDA WHICH DESCRIBE CHINESE SUBMARINE PRODUCTION ACTIVITY FROM 1967 THROUGH EARLY FEBRUARY 1976.

CIA INFR IS10200J-78 03 AUG 78 [] SEC CLASS: 24 MSN: 3P ACCN: S084734 25X1

SHUANGCHENG T2U MTC ICBM SITE B1 SVC TWR MODIF CH 411828N 1001854E
WAC NO : 0287 BE/OBJ NO: [] NPIC NO : - 1-N 25X1
IDHS CODE: [] EPF CAT : 40A COMIREX NO: [] 25X1

DURING 1976 AND 1977 THE SERVICE PLATFORMS ON THE SERVICE TOWER AT SHUANG-CHENG-T2U, COMPLEX R, PAD B1, WERE MODIFIED. THE CIRCULAR OPENINGS IN THE PLATFORMS WERE ENLARGED AND THE PLATFORMS WERE MOVED TO A HIGHER POSITION ON THE TOWER. THESE MODIFICATIONS WERE PROBABLY MADE TO ACCOMMODATE A SPACE BOOSTER DIMENSIONALLY SIMILAR TO THE CSL-2. THE B1 LAUNCH PAD WAS LAST USED IN MARCH 1971 FOR THE SECOND LAUNCH OF THE SMALLER CSL-1 BOOSTER.

CIA INFR IS10198J-78 03 AUG 78 [] SEC CLASS: 24 MSN: 20P ACCN: S084735 25X1

1857
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MILITARY, ARTILLERY DIVISIONS SHENYANG MR CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 350 COMIREX NO:

THERE ARE TWO INDEPENDENT ANTITANK (ATK) ARTILLERY DIVISIONS AND THREE INDEPENDENT ARTILLERY DIVISIONS IN THE SHEN-YANG MILITARY REGION, CHINA. ALL FIVE DIVISIONS ARE IN THE SOUTHERN MANCHURIAN PLAIN. BOTH ATK DIVISIONS AND ONE INDEPENDENT ARTILLERY DIVISION ARE IN KIRIN PROVINCE. THE OTHER TWO INDEPENDENT ARTILLERY DIVISIONS ARE IN LIAONING PROVINCE. THE UNITS ARE GARRISONED ADJACENT TO RAIL LINES, EXCEPT FOR TWO INSTALLATIONS WHICH ARE 10 AND 25 KILOMETERS (KM) FROM THE NEAREST RAIL LINE. THE UNITS IN THE FIVE DIVISIONS APPEAR FULLY EQUIPPED WITH THE EXCEPTION OF TWO OF THE ATK REGIMENTS AND FIVE OF THE ARTILLERY REGIMENTS. TRAINING ACTIVITY IN ALL OF THE DIVISIONS IS LIGHT.

CIA INFR IS10191-78 04 AUG 78 SEC CLASS: 05 MSN: 10P ACCN: S084736

ELECTRONICS, VARIABLE DEPTH SONAR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 251 COMIREX NO:
 SHIPS, KASHIN CLASS DDG VARIABLE DEPTH SONAR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 750 COMIREX NO:
 SHIPS, KRIVAK-1 CL FFG VARIABLE DEPTH SONAR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 750 COMIREX NO:
 SHIPS, PETYA-1 CLASS FFL VARIABLE DEPTH SONAR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 750 COMIREX NO:

25X1

25X1

25X1

ANALYSIS OF GROUND PHOTOGRAPHY OF VARIABLE DEPTH SONARS (VDSS) SEEN EXPOSED FROM THE STERNS OF A MODIFIED KASHIN-CLASS GUIDED-MISSILE DESTROYER (DDG) AND A KRIVAK-I-CLASS GUIDED-MISSILE FRIGATE (FFG) INDICATES THAT BOTH SHIPS HAVE SIMILAR, IF NOT IDENTICAL, VDS SYSTEMS. HOWEVER, THE HYDRAULIC MECHANISM USED FOR STREAMING OR RECOVERING THE VDS AND THE CLAMPING MECHANISM FOR HOLDING THE VDS IN PLACE ARE DIFFERENT ON EACH SHIP.

OIA ANALYSIS ALSO INDICATES THAT THIS VDS IS DIMENSIONALLY COMPATIBLE WITH THE AFTER DECKHOUSE INSTALLED ON A PETYA-I-CLASS SMALL FRIGATE (FFL) MODIFIED AT KALININGRAD DURING 1976. HOWEVER, IT IS NOT BELIEVED THAT THIS VDS WILL BE INSTALLED ON THIS SHIP BECAUSE ITS DECKHOUSE IS TOO SMALL TO ACCOMMODATE A CABLE SPOOL AND THE MECHANISM FOR LOWERING AND RAISING THE VDS INTO AND OUT OF THE WATER.

CIA INFR IS10170K-78 01 AUG 78 SEC CLASS: 13 MSN: 12P ACCN: S084725X11

AIRCRAFT, AERONAUTICAL RSCH/DESIGN/TEST FACs SF
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

1858
 TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

PRETORIA AERONAUTICAL RSCH/DSGN CPLX SCIENTA SF 2544 S 02810 E
 WAC NO : 1300 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05G COMIREX NO:
 VALHALLA AIRCRAFT ENGINE TEST FACILITY SF 254745S 0280850E
 WAC NO : 1300 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05G COMIREX NO:
 JOHANNESBURG AIRFIELD JAN SMUTS ENG TEST FACS SF 260824S 0281430E
 WAC NO : 1300 BE/OBJ NO: NPIC NO : - 3
 IDHS CODE: EPF CAT : 05A COMIREX NO:
 JOHANNESBURG AIRFIELD JAN SMUTS ENG TEST FACS SF 260824S 0281430E
 WAC NO : 1300 BE/OBJ NO: NPIC NO : - 3
 IDHS CODE: EPF CAT : 05G COMIREX NO:
 JOHANNESBURG AIRFIELD PLT ATLAS ENG TEST FACS SF 260901S 0281501E
 WAC NO : 1300 BE/OBJ NO: NPIC NO : - 3-A
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

SOUTH AFRICA'S PRIMARY AERONAUTICAL RESEARCH AND DESIGN UNIT HAS BEEN IDENTIFIED AT THE SCIENTA RESEARCH COMPLEX IN PRETORIA. THIS IS PROBABLY THE AERONAUTICAL RESEARCH UNIT OF THE NATIONAL MECHANICAL ENGINEERING RESEARCH INSTITUTE (NMERI) WHICH IS SUBORDINATE TO THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR). FACILITIES AT SCIENTA INCLUDE A SMALL, POSSIBLE, HORIZONTAL ROCKET MOTOR TEST BUILDING AND THREE WIND TUNNEL BUILDINGS.

TEST FACILITIES FOR AIR-BREATHING AIRCRAFT ENGINES ARE LOCATED AT TWO AREAS IN SOUTH AFRICA. ONE OF THESE AREAS IS NORTH OF VALHALLA AND PROBABLY HAS SIX TEST CELLS. THIS FACILITY IS PROBABLY SUBORDINATE TO THE SOUTH AFRICAN AIR FORCE. THE OTHER AREA IS AT JOHANNESBURG AND CONTAINS SEVEN TEST CELLS. FOUR OF THESE TEST CELLS ARE AT THE ATLAS AIRCRAFT PLANT AND THE OTHER THREE ARE AT JAN SMUTS AIRFIELD.

CIA INFR IS10186K-78 01 AUG 78 SEC CLASS: 13 MSN: 28P ACCN: 508473A 25X1

ANJU PULP + PAPER PLANT U/C KN 393911N 1254010E
 WAC NO : 0380 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 30B COMIREX NO:
 INDUSTRY, CONSTRUCTION/EXPANSION PROGRAMS KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 30 COMIREX NO:
 UNGGI PETROLEUM REFINERY EXPANSION KN 421839N 1302104E
 WAC NO : 0290 BE/OBJ NO: NPIC NO : - 103-G
 IDHS CODE: EPF CAT : 30B COMIREX NO:
 PAENGMA RI PETROLEUM REFINERY U/C KN 400420N 1243245E
 WAC NO : 0290 BE/OBJ NO: NPIC NO : - 73-D2
 IDHS CODE: EPF CAT : 30B COMIREX NO:
 ANJU CHEMICAL PLANT YOUTH U/C KN 393909N 1254210E
 WAC NO : 0380 BE/OBJ NO: NPIC NO : - 110-C1
 IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1859

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

ANJU THERMAL POWER PLANT	WAC NO : 0380	BE/OBJ NO: []	KN 394015N 1254245E
	IDHS CODE: []	EPF CAT : 30E	NPIC NO : - 110-D1
PUKCHANG THERMAL POWER PLANT	WAC NO : 0380	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 30E	KN 393453N 1261820E
KUMSONG NI HYDROELECTRIC POWER PLANT U/C	WAC NO : 0380	BE/OBJ NO: []	NPIC NO : - 88-C
	IDHS CODE: []	EPF CAT : 30E	COMIREX NO: []
TAEAN NODONGJAGU ELECTRICAL EQUIP PLANT PUG	WAC NO : 0380	BE/OBJ NO: []	KN 394611N 1262103E
	IDHS CODE: []	EPF CAT : 30D	NPIC NO : []
SUNCHON CEMENT PLANT EAST U/C	WAC NO : 0380	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 30B	KN 385007N 1253115E
HAEJU CEMENT PLANT CHOSEM EXPANSION	WAC NO : 0380	BE/OBJ NO: []	NPIC NO : - 127-B
	IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []
CHONGJIN IRON + STEEL PLANT KIMCHAEK EXPSN	WAC NO : 0290	BE/OBJ NO: []	KN 392630N 1260130E
	IDHS CODE: []	EPF CAT : 30C	NPIC NO : - 41-G2
MUSAN IRON ORE CONCENTRATION PLANT EXPANSION	WAC NO : 0290	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 30B	KN 375925N 1254240E
TANCHON MAGNESIA PLANT CONSTRUCTION	WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 19-C
	IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
PIHYON UP MANUFACTURING PLANT U/I PUG	WAC NO : 0380	BE/OBJ NO: []	KN 414537N 1294510E
	IDHS CODE: []	EPF CAT : 30	NPIC NO : - 96-F
MANPO UP U/I FACILITY U/C	WAC NO : 0290	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 10B	KN 421338N 1291604E
MANPO UP EXPLOSIVES PLANT	WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 181-R1
	IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
TANTUNG/PAENGMA RI POL PIPELINE EXPANSION	WAC NO : 0290	BE/OBJ NO: []	KN 402520N 1285458E
	IDHS CODE: []	EPF CAT : 85E	NPIC NO : - 118-D
PAENGMA RI/TANTUNG POL PIPELINE EXPANSION	WAC NO : 0290	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 85E	KN 395730N 1243910E
			NPIC NO : - 100-A2
			COMIREX NO: []
			KN 411043N 1261730E
			NPIC NO : []
			COMIREX NO: []
			KN 410650N 1261615E
			NPIC NO : - 77-H1
			COMIREX NO: []
			CH 401230N 1242248E
			NPIC NO : - 27-J2
			COMIREX NO: []
			KN 400340N 1243445E
			NPIC NO : - 73-D1
			COMIREX NO: []

1860

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IN THE LAST 10 YEARS NORTH KOREA HAS BEEN ENGAGED IN AN AMBITIOUS INDUSTRIAL CONSTRUCTION AND EXPANSION PROGRAM. MOST OF THE MAJOR PROJECTS ARE FOREIGN AID PROJECTS, WITH THE SOVIET UNION, CHINA, AND JAPAN BEING THE PRIMARY SUPPLIERS. FINLAND, DENMARK, EAST GERMANY, FRANCE, AND PROBABLY ROMANIA AND AUSTRIA HAVE ALSO ASSISTED NORTH KOREA ON SOME PROJECTS. ANALYSIS OF LATE 1977 AND EARLY 1978 PHOTOGRAPHY SHOWS THAT MANY OF THE CONSTRUCTION AND EXPANSION PROJECTS WERE COMPLETED IN 1977 OR ARE NOW NEARING COMPLETION. IT IS IMPORTANT TO NOTE, HOWEVER, THAT MOST OF THESE PROJECTS WERE SCHEDULED FOR COMPLETION DURING THE 1971-76 SIX YEAR PLAN.

THIS REPORT PROVIDES A BRIEF DESCRIPTION, CHRONOLOGY, AND STATUS OF THE 14 MAJOR INDUSTRIAL CONSTRUCTION OR EXPANSION PROJECTS AND THREE UNIDENTIFIED INDUSTRIAL PLANTS. ALSO INCLUDED ARE A LOCATION MAP AND PHOTOGRAPHS OF EACH PLANT.

CIA INFR IS10202K-78 11 AUG 78

SEC CLASS: 14A MSN:

15P

ACCN: S084739 25X1

AKHTUBINSK FLIGHT TEST CENTER FAD-699/707 ACT

WAC NO : 0235

BE/OBJ NO:

UR 481735N 0461216E

NPIC NO : - 18

IDHS CODE:

EPF CAT : 056

COMIREX NO: 25X1

AKHTUBINSK FLIGHT TEST CENTER FAD-699/707 ACT

WAC NO : 0235

BE/OBJ NO:

UR 481735N 0461216E

NPIC NO : - 18

IDHS CODE:

EPF CAT : 40K

COMIREX NO: 25X1

VLADIMIROVKA ADVANCED WPNS CPLX FAD-699/707

WAC NO : 0235

BE/OBJ NO:

UR 4818 N 04613 E

NPIC NO :

IDHS CODE:

EPF CAT : 40K

COMIREX NO:

AKHTUBINSK/VLADIMIROVKA ASM STORAGE AREA CRTS

WAC NO : 0235

BE/OBJ NO:

UR 482241N 0461218E

NPIC NO : - 10-F1

IDHS CODE:

EPF CAT : 40J

COMIREX NO: 25X1

THE VLADIMIROVKA ADVANCED WEAPONS AND RESEARCH CENTER (VAWARC) HAVE IDENTIFIED THE TESTING OF A PROBABLE STRATEGIC CRUISE MISSILE DESIGNATED FAD 699. NEITHER THE MISSILE NOR ANY ASSOCIATED EQUIPMENT HAVE BEEN IDENTIFIED ON PHOTOGRAPHY. OIA WAS NOT ABLE TO ASSOCIATE ANY LAUNCHING AIRCRAFT WITH THE FAD 699.

ANOTHER TELEMETRY DESIGNATOR--FAD 707--IS SUSPECTED OF BEING THE GUIDANCE TESTING PACKAGE FOR THE FAD 699 AIRFRAME. AN AIRBORNE PLATFORM FOR THE FAD 707 TESTING PROGRAM COULD NOT BE IDENTIFIED.

IMAGERY OVER AKHTUBINSK DURING THE PERIOD OF FAD 699 AND FAD 707 ACTIVITY WAS ANALYZED AND HISTOGRAMS WERE CONSTRUCTED OF THE LARGER BOMBER AND TRANSPORT AIRCRAFT PRESENT.

NO CORRELATION BETWEEN BOMBERS (BEAR, BADGER, BACKFIRE, OR BLINDER) AND THE FAD 699 SIGNAL WAS FOUND. IF THE LAUNCHING PLATFORM IS BASED AT AKHTUBINSK A PATTERN OF MOVEMENTS IN AND OUT OF THE AIRFIELD IS NOT LIKELY TO BE OBSERVED.

NO CORRELATION BETWEEN MODIFIED AIRCRAFT AND THE FAD 707 SIGNAL WAS FOUND. THE SIZE AND TYPE OF PACKAGE INVOLVED IS STILL UNKNOWN.

NO MISSILE OR MISSILE SHIPPING CONTAINER COULD BE ASSOCIATED WITH THE FAD 699. SOME POSSIBLE NEW CRATES WERE SEEN IN THE ASM SUPPORT AREA BUT NO ASSOCIATION WITH ANY MISSILE WAS MADE. IT IS ALSO POSSIBLE THAT THE FAD 699 MISSILE MAY BE SHIPPED ON A PALLET TO AKHTUBINSK. OTHER MISSILE MAY ALSO BE MOVED THIS WAY.

THREE GROUPS OF ASM CRATES HAVE BEEN IDENTIFIED AS LIKELY POSITIONS FOR PRE OR POST LAUNCH GATHERINGS.

1861

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

HOWEVER THERE DOES NOT APPEAR TO BE ANY REGULAR MOVEMENT OF CRATES BEFORE OR AFTER MISSILE LAUNCHINGS. OIA WAS NOT ABLE TO MATCH INCREASES OR DECREASES IN THE NUMBERS OF CRATES WITH THE NUMBER OF MISSILES LAUNCHED.

CIA INFR 1S10212K-78 17 SEP 78 [] SEC CLASS: 13 MSN: 12P ACCN: S084740 25X1

AIRCRAFT: BISON M-4 LOCATION/COUNT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

FROM ANALYSIS OF REPETITIVE SATELLITE IMAGERY OF TWO SOVIET BISON AIRFIELDS, A BEAR AIRFIELD, A REPAIR FACILITY AND A FLIGHT TEST CENTER, OIA BELIEVES THAT THERE ARE 91 BISON BOMBERS IN THE SOVIET OPERATIONAL INVENTORY--FOUR TO SIX MORE THAN THE NUMBER CARRIED IN SOME INTELLIGENCE ESTIMATES. OF THE 91 BISON, OIA IDENTIFIED 19 A MODELS (INCLUDING TWO WITH PORTIONS OF THE RIGHT WING MISSING), 64 B AND EIGHT C MODELS. THIRTY-ONE BISON (19 A AND 12 B) DO NOT HAVE REFUELING PROBES AND ARE CONSIDERED TO BE TANKER VARIANTS. SOME OF THE B MODELS WITH REFUELING PROBES COULD ALSO BE TANKER AIRCRAFT.

CIA INFR 1S10182K-78 22 AUG 78 [] SEC CLASS: 13 MSN: 15P ACCN: S084741 25X1

AIRFIELDS, NAVAL RESERVE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:
KOSHKAYAVR AIRFIELD NAVAL RESERVE UR 691507N 0311144E 25X1
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 21 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
UMBOZERO AIRFIELD NAVAL RESERVE UR 673058N 0341838E 25X1
WAC NO : 0091 BE/OBJ NO: NPIC NO : - 10-A 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
UMBOZERO AIRFIELD SOUTH NAVAL RESERVE UR 672242N 0341331E 25X1
WAC NO : 0091 BE/OBJ NO: NPIC NO : - 10-G 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
KOIGI AIRFIELD NAVAL RESERVE UR 585200N 0254340E 25X1
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 142 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
NOVAYA AIRFIELD NAVAL RESERVE UR 464226N 1425225E 25X1
WAC NO : 0281 BE/OBJ NO: NPIC NO : - 28-J 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
MIORY AIRFIELD NAVAL RESERVE UR 553908N 0274155E 25X1
WAC NO : 0168 BE/OBJ NO: NPIC NO : - 193 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
GENICHESK AIRFIELD NAVAL RESERVE UR 461240N 0344556E 25X1
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 114 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1

1862
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

KORSAKOVA AIRFIELD NAVAL RESERVE

WAC NO : 0281 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 05A

UR 463707N 1424907E

NPIC NO : - 28-A
COMIREX NO: [REDACTED]

25X1

25X25X1

LASTOCHKA AIRFIELD NAVAL RESERVE

WAC NO : 0282 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 05A

UR 462326N 1340612E

NPIC NO : - 112
COMIREX NO: [REDACTED]

25X1

25X1

LEONIDOV AIRFIELD NAVAL RESERVE

WAC NO : 0205 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 05A

UR 491624N 1425539E

NPIC NO : - 8
COMIREX NO: [REDACTED]

25X1

25X1

TEN PRINCIPAL SOVIET NAVAL RESERVE AIRFIELDS HAVE BEEN ANALYZED TO DETERMINE TO WHAT EXTENT THEY CAN SUPPORT STRIKE AIRCRAFT IN WARTIME. IMAGERY SINCE 1970 WAS EXAMINED FOR EVIDENCE OF NUCLEAR WARHEAD OR AIR-TO-SURFACE MISSILE (ASM) STORAGE, THE AMOUNT OF POL STORAGE AVAILABLE, THE USABILITY OF THE RUNWAYS, AND THE TYPE OF SUPPORT EQUIPMENT AND FACILITIES PRESENT. THIS REPORT INCLUDES A TABLE WHICH PROVIDES A SUMMARY OF THE FACILITIES, AIRCRAFT, MISSILES AND EQUIPMENT AT EACH OF THE 10 AIRFIELDS.*

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1863

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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DIA IIM 5B3-58898-78 25 AUG 78 SEC CLASS: 14 MSN: 2P ACCN: 5084755

25X1

1865
TOP SECRET CHESS RUFF

25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1
25X1

KAMEN NA OBI AIRFIELD NW AIRCRAFT COUNT [REDACTED] UR 534743N 0810902E
WAC NO : 0162 BE/OBJ NO: [REDACTED] NPIC NO : - 38-C
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED]
KAMEN NA OBI AIRFIELD [REDACTED] UR 534700N 0811930E
WAC NO : 0162 BE/OBJ NO: [REDACTED] NPIC NO : - 38-A
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED]

25X1
25X1
25X1
25X1
25X1

DIA IIM 5B3-58902-78 25 AUG 78 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 2P

ACCN: 508475625X1

YAROSLAVL TIRE + ASBESTOS COMBINE YARAK [REDACTED] UR 573914N 0395125E
WAC NO : 0154 BE/OBJ NO: [REDACTED] NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 30D COMIREX NO: [REDACTED]

25X1
25X1

DIA IIM 5B1-58874-78 15 AUG 78 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 3P

ACCN: 508475625X1

DONETSK AVTOKOLONNA 2243G [REDACTED] UR 475738N 0374451E
WAC NO : 0249 BE/OBJ NO: [REDACTED] NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 85A COMIREX NO: [REDACTED]

25X1
25X1

DIA IIM 5B1-58879-78 15 AUG 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 6P

ACCN: 508476025X1

OSTROGOZHSK ARMY BARRACKS [REDACTED] UR 505205N 0390340E

25X1

1866
TOP SECRET CHESS RUFF [REDACTED]

TOP SECRET CHESS RUFF

25X1

WAC NO : 0234 BE/OBJ NO: NPIC NO : - 79
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA IIM 5B1-58883-78 23 AUG 78 SEC CLASS: 14 MSN: 4P ACCN: S084761 25X1

PODZUCHY MILITARY ENGINEER STORAGE FACIL 503 PL 532151N 0143539E 25X1
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 142-C7 25X1
IDHS CODE: EPF CAT : 35F COMIREX NO: 25X1

DIA IIM 5B1-58884-78 17 AUG 78 SEC CLASS: 14 MSN: 3P ACCN: S084762 25X1

VOLOGDA AVTOKOLONNA 1117 UR 591448N 0395343E 25X1
WAC NO : 0154 BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 85A COMIREX NO: 25X1

DIA IIM 5B1-58887-78 18 AUG 78 SEC CLASS: 14B MSN: 1P ACCN: S084764 25X1

SOKAL ARMY BARRACKS AL1 PRISON FACILITY UR 502850N 0241548E 25X1
WAC NO : 0232 BE/OBJ NO: NPIC NO : - 272-D 25X1
IDHS CODE: EPF CAT : 35A COMIREX NO: 25X1

SOKAL ARMY BARRACKS AL1 PRISON FACILITY UR 502850N 0241548E 25X1
WAC NO : 0232 BE/OBJ NO: NPIC NO : - 272-D 25X1
IDHS CODE: EPF CAT : 10A COMIREX NO: 25X1

DIA IIM 5B1-58888-78 23 AUG 78 SEC CLASS: 14 MSN: 5P ACCN: S084765 25X1

TORUN QUARTERMASTER STORAGE FACILITY 524 PL 530228N 0183555E 25X1
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 154-C2 25X1
IDHS CODE: EPF CAT : 35F COMIREX NO: 25X1

1867
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

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DIA	NBRG	NDA07-5134-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084768
YUNG TENG MILITARY AREA				CH 3643 N 10317 E		
WAC NO : 0383				NPIC NO :		25X1
IDHS CODE: []				COMIREX NO:		25X1
BE/OBJ NO: []				EPF CAT : 35		
DIA	NBRG	NDA07-5135-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084769
YUNG TENG ARMY BARRACKS AL1 + HQ ARTILLERY DIV				CH 364237N 1031616E		
WAC NO : 0383				NPIC NO : - 8		25X1
IDHS CODE: []				COMIREX NO: []		25X1
BE/OBJ NO: []				EPF CAT : 35A		
DIA	NBRG	NDA07-5136-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084770
YUNG TENG ARMY BARRACKS SSE AL2				CH 364052N 1031713E		
WAC NO : 0383				NPIC NO : - 8-A		25X1
IDHS CODE: []				COMIREX NO: []		25X1
BE/OBJ NO: []				EPF CAT : 35A		
DIA	NBRG	NDA07-5137-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084771
YUNG TENG ARMY BARRACKS SSE AL3				CH 364031N 1031721E		
WAC NO : 0383				NPIC NO : - 8-B		25X1
IDHS CODE: []				COMIREX NO: []		25X1
BE/OBJ NO: []				EPF CAT : 35A		
DIA	NBRG	NDA07-5138-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084772
MINHO ARMY BARRACKS AL1				CH 362046N 1024917E		
WAC NO : 0383				NPIC NO : - 14-E1		25X1
IDHS CODE: []				COMIREX NO: []		25X1
BE/OBJ NO: []				EPF CAT : 35A		
DIA	NBRG	NDA07-5139-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084773
SHIHTSUISHAN MILITARY AREA				CH 3916 N 10616 E		
WAC NO : 0383				NPIC NO :		25X1
IDHS CODE: []				COMIREX NO:		25X1
BE/OBJ NO: []				EPF CAT : 35		
DIA	NBRG	NDA07-5140-78	25 AUG 78	SEC CLASS: 05G MSN:	1P	ACCN: 5084774

1868

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TOP SECRET CHESS RUFF

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SHIHTSUISHAN ARMY BARRACKS AL1		CH 391223N 1061854E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 70-B	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5141-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084775
SHIHTSUISHAN ARMY BARRACKS AL5		CH 391145N 1061950E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 70-B6	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5142-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084776
SHIHTSUISHAN ARMY BARRACKS AL2/DEFENSIVE AREA		CH 392030N 1061701E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 41-C1	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5143-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084777
SHIHTSUISHAN ARMY BARRACKS AL3/DEFENSIVE AREA		CH 391532N 1061040E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 70-B5	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5144-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084778
TAWUKOU ARMY BARRACKS AL1		CH 390710N 1062255E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 41-C2	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5145-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084779
SHIHTSUISHAN ARMY BARRACKS AL4		CH 391342N 1061523E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 70-B3	25X1
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG NDA07-5146-78	25 AUG 78	SEC CLASS: 05G MSN:	1P ACCN: S084780
SHIHTSUISHAN DEFENSIVE AREA 2		CH 391640N 1061902E	
WAC NO : 0383	BE/OBJ NO: []	NPIC NO : - 70-B4	25X1
IDHS CODE: []	EPF CAT : 35	COMIREX NO: []	25X1
DIA NBRG NDA07-5118-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084781
GRUDOVO ARMY BARRACKS WEST 1		BU 422048N 0270957E	

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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	WAC NO : 0323	BE/OBJ NO: []	NPIC NO : - 48		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5119-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084782
	KAZANLUK ARMY BARRACKS 1				
	WAC NO : 0322	BE/OBJ NO: []	BU 423727N 0252217E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 34-61		25X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5120-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084783
	SLIVEN ARMY BARRACKS 1/2/5/6/7				
	WAC NO : 0322	BE/OBJ NO: []	BU 424022N 0262026E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 82-A		25X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5121-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084784
	SHUMEN ARMY BARRACKS NE 2/3				
	WAC NO : 0322	BE/OBJ NO: []	BU 431645N 0265540E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 38-A		25X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5122-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084785
	ASENOVGRAD ARMY BARRACKS 1				
	WAC NO : 0322	BE/OBJ NO: []	BU 420129N 0245347E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 78		25X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5123-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084786
	SOFIYA ARMY BARRACKS 1				
	WAC NO : 0322	BE/OBJ NO: []	BU 424010N 0232241E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 85-79		25X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5124-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084787
	KNYAZHEVO ARMY BARRACKS 1				
	WAC NO : 0322	BE/OBJ NO: []	BU 423957N 0231406E		25X1
	IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 85-B		225X1
			COMIREX NO: []		
DIA	NBRG	NDA07-5125-78	25 AUG 78	SEC CLASS: 05B MSN:	1P ACCN: S084788
	KARLOVO ARMY BARRACKS 1 + HEADQUARTERS				
	WAC NO : 0322	BE/OBJ NO: []	BU 423837N 0244743E		25X1
			NPIC NO : - 48-B		

1870

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
ZDAI

IDHS CODE: []

EPF CAT : 35A

COMIREX NO: []

25X1

DIA NBRC NDA06-5123-77 18 AUG 78

SEC CLASS: 05B MSN:

1P

ACCN: S084789

SUROK NAVAL MISSILE TRANSHIPMENT STORAGE CIR

UR 562747N 0480919E

WAC NO : 0155

BE/OBJ NO: []

NPIC NO : - 15-F

IDHS CODE: []

EPF CAT : 40G

COMIREX NO: []

25X1

25X1

25X1

CIA IKP 1510205J-78 AUG 78

SEC CLASS: 24 MSN:

7P

ACCN: S084791

25X1

SAINT LUCIA MISSILE TEST RANGE

SF 280118S 0322649E

WAC NO : 1396

BE/OBJ NO: []

NPIC NO : - 6-A

IDHS CODE: []

EPF CAT : 40E

COMIREX NO: []

25X1

25X1

THE REPUBLIC OF SOUTH AFRICA'S MISSILE TEST RANGE AT ST. LUCIA ON THE COAST NORTHEAST OF DURBAN APPARENTLY HAS BEEN USED PRIMARILY FOR AIR-TO-AIR AND SURFACE-TO-AIR MISSILE FLIGHT TESTING. NO INDICATIONS OF SURFACE-TO-SURFACE MISSILE DEVELOPMENT AND TESTING OR NUCLEAR-RELATED ACTIVITIES HAVE BEEN SEEN AT THIS RANGE. WITH THE EXCEPTION OF THREE NEW TRACKING FACILITIES, WHICH WERE PROBABLY USED TO MONITOR RECENT AIR-TO-AIR MISSILE TESTS, AND A NEW PROBABLE OBSERVATION TOWER, THE RANGE HAS REMAINED SIGNIFICANTLY UNCHANGED SINCE IT WAS FIRST SEEN ON OVERHEAD PHOTOGRAPHY IN 1975.

DIA BIR RDA11-0014-77 AUG 78

SEC CLASS: 14D MSN:

6P

ACCN: S084792

25X1

ZAPOROZHYE MOTOR VEHICLE PLANT KOMMUNAR

UR 474801N 0351054E

WAC NO : 0080

BE/OBJ NO: []

NPIC NO : - 47-F

IDHS CODE: []

EPF CAT : 85A

COMIREX NO: []

25X1

ZDAI

25X1

THIS REPORT SUPERSEDES DIA, RDA-11/0023/71, [], ZAPOROZHYE MOTOR VEHICLE PLANT KOMMUNAR, USSR, JAN 71, (TOP SECRET RUFF), FORMERLY THE BASIC REPORT FOR THIS INSTALLATION.

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF ZAPOROZHYE MOTOR VEHICLE PLANT KOMMUNAR. THIS LARGE, RAIL-SERVED COMPLEX IS LOCATED ALONG THE SOUTH EDGE OF ZAPOROZHYE IN THE UKRAINIAN SSR. THE PLANT IS ONE OF THE LARGEST VEHICLE MANUFACTURING COMPLEXES IN THE SOVIET UNION AND IS CURRENTLY ENGAGED IN SERIES PRODUCTION OF ZAZ-968 PASSENGER CARS AND LIGHT TRUCKS. THE PLANT ALSO PRODUCES BROM AMPHIBIOUS ARMORED VEHICLES, AND MODIFIES BTR-60 AND GAZ-66 TRUCKS FOR THE SOVIET MILITARY FORCES. THE IRREGULAR-SHAPED FACILITY ENCOMPASSES 129 HECTARES AND CONTAINS 189 BUILDINGS WITH A TOTAL ROOF COVER OF 350,051 SQUARE METERS. MAJOR BUILDINGS INCLUDE TWO FOUNDRIES, ONE FORGE/FOUNDRY, ONE FABRICATION SEVEN FABRICATION/ASSEMBLY, AND THREE STEAM/HEATING PLANTS.

25X1

1871
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES ONE MAP, TWO ANNOTATED PHOTOGRAPHS, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND DOCUMENTARY SOURCES. ONE OF THE PHOTOGRAPHS IS A NATIONAL BASIC REFERENCE GRAPHIC (NBRG).

25X1

1872
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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CIA IRP IS10117K-78 AUG 78 SEC CLASS: 13 MSN: 28P ACCN: S0847925X1

SEVERODVINSK SHIPYARD YAGRY SHIPLIFTING BASIN	UR 643514N 0394907E	
WAC NO : 0092	BE/OBJ NO:	NPIC NO : - 7-K
IDHS CODE:	EPF CAT : 75E	COMIREX NO:
SEVERODVINSK SHIPYARD 402 LAUNCH BASIN	UR 643438N 0394832E	
WAC NO : 0092	BE/OBJ NO:	NPIC NO : - 7-A
IDHS CODE:	EPF CAT : 75E	COMIREX NO:
ROSTA NAVAL BASE/SHIP REPAIR YD GRAVING DOCK	UR 690145N 0330356E	
WAC NO : 0051	BE/OBJ NO:	NPIC NO : - 12-F
IDHS CODE:	EPF CAT : 75B	COMIREX NO:

25X1

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25X1

25X1

25X1

25X1

1874
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

ROSTA NAVAL BASE/SHIP REPAIR YD GRAVING DOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
PALA GUBA NAVAL BASE/SHIP RPR YD FLTG DRYDOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75B
PALA GUBA NAVAL BASE/SHIP RPR YD FLTG DRYDOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
CHALMPUSHKA SHIP REPAIR YARD FLOATING DRYDOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
PETROVKA NAVAL BASE + SHIPYARD WORK POSITIONS
WAC NO : 0291 BE/OBJ NO:
IDHS CODE: EPF CAT : 75B
PETROVKA NAVAL BASE + SHIPYARD WORK POSITIONS
WAC NO : 0291 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
VLADIVOSTOK NAVAL BASE/SHIPYD 202 GRAVING DOCK
WAC NO : 0291 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
SHIPS, SSBN OUT-OF-WATER WORK PSTNS SALT RLTD
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 75D
GREMIKHA NAVAL BASE/SHIP RPR YD GRAVING DOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
GREMIKHA NAVAL BASE/SHIP RPR YD GRAVING DOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75B
PETROPAVLOVSK NAVAL BASE/SHIPYD FLTG DRYDOCKS
WAC NO : 0194 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
PETROPAVLOVSK NAVAL BASE/SHIPYD FLTG DRYDOCKS
WAC NO : 0194 BE/OBJ NO:
IDHS CODE: EPF CAT : 75B
OLENYA GUBA SUBMARINE RPR BASE FLTG DRYDOCK
WAC NO : 0051 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
DUNAY SUBMARINE BASE/SHIPYD RAZBOYNIK DRYDOCK
WAC NO : 0291 BE/OBJ NO:
IDHS CODE: EPF CAT : 75E
SLAVYANKA SHIP REPAIR YARD FLOATING DRYDOCKS

UR 690145N 0330356E
NPIC NO : - 12-F
COMIREX NO:
UR 691156N 0332456E
NPIC NO : - 47
COMIREX NO:
UR 691156N 0332456E
NPIC NO : - 47
COMIREX NO:
UR 690333N 0331324E
NPIC NO : - 12-Q2
COMIREX NO:
UR 430703N 1322017E
NPIC NO : - 67
COMIREX NO:
UR 430703N 1322017E
NPIC NO : - 67
COMIREX NO:
UR 430643N 1315427E
NPIC NO : - 48-C
COMIREX NO:
UR
NPIC NO :
COMIREX NO:
UR 680420N 0392824E
NPIC NO : - 38-A
COMIREX NO:
UR 680420N 0392824E
NPIC NO : - 38-A
COMIREX NO:
UR 525358N 1582607E
NPIC NO : - 12-Q
COMIREX NO:
UR 525358N 1582607E
NPIC NO : - 12-Q
COMIREX NO:
UR 691250N 0331745E
NPIC NO : - 19-A1
COMIREX NO:
UR 425400N 1322110E
NPIC NO : 4-C
COMIREX NO:
UR 425200N 1312326E

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

25X1

1875
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0291	BE/OBJ NO: []	NPIC NO : 37-A3
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []
DUNAY SUBMARINE BASE/SHPYD RAZBOYNIK DRYDOCK	UR 425400N 1322110E	
WAC NO : 0291	BE/OBJ NO: []	NPIC NO : 4-C
IDHS CODE: []	EPF CAT : 75A	COMIREX NO: []
VLADIVOSTOK NAVAL BASE/SHPYD 202 GRAVING DOCK	UR 430643N 1315427E	
WAC NO : 0291	BE/OBJ NO: []	NPIC NO : - 48-C
IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []

25X1
25X125X1
25X125X1
25X1

THE SOVIETS HAVE REACHED THE LIMITS OF NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINES (SSBNs) AND MISSILE LAUNCH TUBES ALLOWED BY THE STRATEGIC ARMS LIMITATION (SAL) INTERIM AGREEMENT. BECAUSE THEY ARE STILL CONSTRUCTING SSBNs, THEY MUST NOW DISMANTLE SOME MODERN SSBNs AND LAUNCH TUBES. PHOTOGRAPHIC ANALYSIS OF WORK POSITIONS WHERE THE SOVIETS MIGHT UNDERTAKE DISMANTLEMENT WORK HAS REVEALED THE FOLLOWING -THERE ARE A TOTAL OF 14 OPEN, OUT-OF-WATER POSITIONS IN THE SOVIET NORTHERN AND PACIFIC FLEETS THAT ARE CAPABLE OF ACCOMMODATING MODERN SSBNs--SIX IN THE NORTHERN FLEET AND EIGHT IN THE PACIFIC FLEET. THREE OF THE 14 WORK POSITIONS CAPABLE OF ACCOMMODATING MODERN SSBNs ARE PRIME CANDIDATES FOR PERFORMING DISMANTLEMENT. TWO ARE IN THE NORTHERN FLEET: THE SOUTH LEDGE OF THE SHIFTLIFTING BASIN AT YAGRI ISLAND SHIP REPAIR YARD AND A WORK POSITION IN THE LAUNCH BASIN AT SEVERODVINSK SHIPYARD 402. THE ONE POSITION IN THE PACIFIC FLEET IS AN ON-LAND REPAIR WAYS AT PETROVKA SHIPYARD.

THE OTHER 11 OF THESE 14 WORK-POSITIONS ARE NOT CONSIDERED PRIME CANDIDATES FOR DISMANTLING WORK EITHER BECAUSE THEY LACK ADEQUATE CRANE SERVICE, RAIL SERVICE, NUCLEAR REACTOR SUPPORT FACILITIES, AND FABRICATION AND REASSEMBLY FACILITIES, OR BECAUSE THEIR USE FOR DISMANTLING SUBMARINES WOULD BE TOO DISRUPTIVE OF NORMAL OVERHAUL AND REPAIR PROGRAMS.

THERE ARE AN ADDITIONAL 23 OPEN, OUT-OF-WATER WORK POSITIONS WHICH ARE CAPABLE OF ACCOMMODATING OLDER BALLISTIC MISSILE SUBMARINES--SUBMARINES THAT ARE NOT PART OF THE 62 MODERN SSBN LIMIT SET BY THE SAL INTERIM AGREEMENT BUT WHICH HAVE MISSILE LAUNCHES THAT ARE COUNTED IN THE 950 MISSILE LAUNCH TUBE LIMIT. NINE OF THESE POSITIONS ARE IN THE NORTHERN FLEET AND 14 POSITIONS ARE IN THE PACIFIC FLEET. OF THESE 23 POSITIONS, 10 MAY HAVE THE CAPACITY TO ACCOMMODATE AT LEAST Y-CLASS SSBNs.

25X1

DIA BIIR KDA11-0006-77

AUG 78

SEC CLASS: 14D MSN: []

13P

ACCN: S08486125X1

ANKOUCHEN AMMUNITION + GRENADE PLANT

WAC NO : 0384

BE/OBJ NO: []

CH 351540N 1064630E

NPIC NO : - 2-A

25X1

1876

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

IDHS CODE: []

EPF CAT : 35G

COMIREX NO: []

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF AN-KOU AMMUNITION AND GRENADE PLANT, LOCATED 2.2 NM NORTH-NORTHWEST OF AN-KOU-YAO, AND 16.0 NM SOUTH-SOUTHEAST OF PENG-LIANG, IN KANSU PROVINCE, NORTH-CENTRAL PEOPLE'S REPUBLIC OF CHINA (PRC). THE PLANT CONSISTS OF FACILITIES FOR PRODUCING SMALL CALIBER AMMUNITION UP TO 20MM AND GRENADES. THE INSTALLATION IS ROAD SERVED AND CONTAINS 276 BUILDINGS TOTALING 109,723 SQUARE METERS OF ROOF COVER. OF THESE, 54 ARE MAJOR PRODUCTION BUILDINGS THAT CONSTITUTE 49 PERCENT (54,069 SQUARE METERS) OF THE TOTAL ROOF COVER. THE INSTALLATION HAS BEEN DIVIDED INTO EIGHT FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH. IN ADDITION TO THE PRIMARY CATEGORY NUMBER LISTED IN THE DATA BLOCK, THESE CATEGORIES ARE REPORTED: 62110, 62230, 62910, 62430, AND 62433.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, EIGHT ANNOTATED PHOTOGRAPHS, AND TWO TABLES.

DIA BIIR RDA11-0011-77

AUG 78

SEC CLASS: 14B MSN: []

5P

ACCN: 5084802

KUNOVICE AIRFRAME PLANT

WAC NO : 0232

IDHS CODE: []

KUNOVICE AIRFIELD

WAC NO : 0232

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05G

BE/OBJ NO: []

EPF CAT : 05A

CZ 490235N 0172618E

NPIC NO : - 84-A

COMIREX NO: []

CZ 490149N 0172628E

NPIC NO : - 84

COMIREX NO:

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KUNOVICE AIRFRAME PLANT IN CENTRAL CZECHOSLOVAKIA, 34NM ESE OF BRNO. IT UPDATES DIA, RDA-11/0068/72, "KUNOVICE AIRFRAME PLANT," CZ, JUN 72 (TOP SECRET RUFF), THE BASIC FOR THIS TARGET. THIS UPDATED REPORT INCLUDES THREE PHOTOGRAPHS, TABLES, AND TEXT WHICH DEPICT THE CHANGES BETWEEN JANUARY 1972 AND NOVEMBER 1976. IS A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED AND SUPERSEDES THE NBRG IN THE BASIC REPORT.

DIA BIIR RDA05-0020-77

AUG 78

SEC CLASS: 14D MSN: []

27P

ACCN: 5084803

BELAYA AIRFIELD

WAC NO : 0200

IDHS CODE: []

BELAYA AAM SUPPORT FACILITY

WAC NO : 0200

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

BE/OBJ NO: []

EPF CAT : 40J

UR 525454N 1033434E

NPIC NO : - 2

COMIREX NO: []

UR 525540N 1033300E

NPIC NO :

COMIREX NO:

BELAYA AIRFIELD GCA SITE

WAC NO : 0200

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25H

UR 525436N 1033421E

NPIC NO :

COMIREX NO:

1877

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
23A1

THIS REPORT SUPERSEDES DIA, RDA-05/0010/69 AND DIA, RDA-05/0008/71, DATED SEP 69 AND SEP 70 RESPECTIVELY AND TITLED DELAYA AIRFIELD, AS THE BASIC REPORT FOR THE AIRFIELD.

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF DELAYA AIRFIELD AND RELATED FACILITIES DURING THE PERIOD JUNE 1962 TO SEPTEMBER 1976. THE AIRBASE IS A SOVIET LONG RANGE AVIATION BASE WITH A PVO REGIMENT COLOCATED. THE AIRBASE IS IN SOUTH CENTRAL SIBERIA, U.S.S.R., AND SUPPORTS BADGER AND FIDDLER AIRCRAFT. DURING THE REPORTING PERIOD SIGNIFICANT CHANGES TO THE AIRBASE INCLUDE LENGTHENING THE RUNWAY, CONSTRUCTION OF NEW TAXIWAYS, CONSTRUCTION OF EARTHEN AIRCRAFT REVETMENTS, CONSTRUCTION OF TWO DISPERSAL TAXIWAYS AND PARKING FACILITIES, CONSTRUCTION OF FOUR AMMUNITION STORAGE AREAS AND AN ASM STORAGE AREA, CONSTRUCTION OF A FUELING APRON AND CONSTRUCTION OF A NEW GCA POSITION.

25X1

FEATURES DESCRIBED IN THE REPORT INCLUDE THE 4,020M X 80M CONCRETE RUNWAY, TAXIWAYS AND PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 25,488,230 LITERS, AIRCRAFT MAINTENANCE, ORDNANCE STORAGE, ACCOMMODATIONS, STORAGE AND TRANSPORTATION. AOR INCLUDED 51 BADGER, 20 FIDDLER, 2 CUB, 1 COKE, 1 COOT, AND 2 MIDGET.

25X1
25X1

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM AND INCLUDES A MAP, 23 ANNOTATED PHOTOGRAPHS, A CHRONOLOGY, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

25X1

DIA B1IR RDA11-0020-77

AUG 78

SEC CLASS: 14B MSN:

10P

ACCN: 5084805 25X1

DMITROV AUTOMOTIVE TEST TRACK

UR 562000N 0371830E

WAC NO : 0154

BE/OBJ NO:

NPIC NO : - 57-D

IDHS CODE:

EPF CAT : 85A

COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF DMITROV AUTOMOTIVE TEST TRACK DURING THE PERIOD OF AUGUST 1969 THROUGH JANUARY 1977. THE AUTOMOTIVE TEST TRACK IS CAPABLE OF CONDUCTING A WIDE VARIETY OF TESTS ON ALL TYPES OF WHEELED VEHICLES. THESE INCLUDE GRADEABILITY, TURNING AND CORNERING, HIGH-SPEED ENDURANCE, BRAKING, ACCELERATION, IMPACT, LOAD BEARING, AND GENERAL ROADABILITY. THE INSTALLATION, WHICH ENCOMPASSES 2,450 HECTARES, IS FUNCTIONALLY DIVIDED INTO SIX AREAS: TEST TRACK, ENGINEERING/SUPPORT, HOUSING, MOTOR POOL, PROBABLE RADIO COMMUNICATIONS, AND WASTE TREATMENT. IT INCLUDES 82 BUILDINGS WITH A

25X1

1878
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
20X1

TOTAL ROOF COVER OF 40,481 SQUARE METERS AND 65 KILOMETERS OF TEST TRACK DIVIDED AMONG ITS 15 SEPARATE TEST COURSES.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES ONE MAP, THREE ANNOTATED PHOTOGRAPHS, ONE TABLE, AND CHRONOLOGY. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

25X1

1879
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA BIR RCS13-0011-78 AUG 78 SEC CLASS: 05 MSN: 11P ACCN: 5084809

KALUSH CHEMICAL COMBINE

WAC NO : 0232

BE/OBJ NO:

UR 490432N 0241812E

NPIC NO :

IDHS CODE:

EPF CAT : 30F

COMIREX NO:

25X1

25X1

THE KALUSH CHEMICAL COMBINE PRODUCES SOLVENTS, AN INTERMEDIATE CHEMICAL MONOMER FOR RESINS PRODUCTION, A POSSIBLE POLYMER RESIN, AND SEVERAL UNIDENTIFIED INTERMEDIATE OR FINAL CHEMICAL PRODUCTS. SPECIFIC IDENTIFIED PRODUCTS OF THE COMBINE INCLUDE CHLORINE, CAUSTIC SODA, AND THE SOLVENTS CARBON TETRACHLORIDE, PERCHLOROETHYLENE, AND HYDROCHLORIC ACID. VINYL CHLORIDE MONOMER, WHICH IS POSSIBLY POLYMERIZED TO POLYVINYL CHLORIDE, IS ALSO PRODUCED. ONE FACILITY IN THE COMBINE MIGHT PRODUCE POLYACRYLAMIDE AND ANOTHER MIGHT FABRICATE TITANIUM METAL.

THE COMBINE WAS UNDER CONSTRUCTION WHEN IT WAS FIRST OBSERVED IN 1963. BY 1965, A POSSIBLE CHLORINE AND CAUSTIC SODA PLANT HAD BEEN COMPLETED AND CONSTRUCTION HAD STARTED ON AN UNIDENTIFIED PLANT AND ON WHAT COULD BE A TITANIUM FABRICATION PLANT. CONSTRUCTION ON THESE PLANTS WAS COMPLETED IN 1970 AND 1969 RESPECTIVELY. THE COMBINE HAS CONTINUED TO EXPAND SINCE THAT TIME. DURING THE 1971-75 FIVE-YEAR PLAN, A CHLORINE AND CAUSTIC SODA PLANT, A VINYL CHLORIDE MONOMER PLANT, A POSSIBLE POLYVINYL CHLORIDE PLANT, AND AN UNIDENTIFIED PLANT WERE CONSTRUCTED. CONSTRUCTION ALSO BEGAN ON THREE OTHER UNIDENTIFIED PLANTS. SEVERAL PRODUCTION PLANTS THAT WERE BEGUN PRIOR TO 1971 WERE ALSO COMPLETED DURING THE FIVE-YEAR PERIOD. THESE INCLUDE A SOLVENTS PLANT, A CHLORINE AND CAUSTIC SODA PLANT, AND WHAT COULD BE A POLYACRYLAMIDE PLANT. IN LATE 1977, CONSTRUCTION WAS CONTINUING ON THE THREE UNIDENTIFIED PLANTS AND CONSTRUCTION HAD BEGUN ON ANOTHER UNIDENTIFIED PLANT.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE LISTING ITS PRODUCTION AREAS. THE TABLE ALSO PROVIDES THE VOLUMES OF THE MAJOR PRODUCTION BUILDINGS AND THE CHRONOLOGY OF THEIR CONSTRUCTION. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

CIA NOTE ISSN0006J-78 JUL 78 SEC CLASS: 25 MSN: 9P

ACCN: 5084810

SHANGHAI SOLAR POWER PLANT EXPERIMENTAL IDENT

CH 311800N 1213248E

WAC NO : 0492

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 30E

COMIREX NO:

25X1

25X1

25X1

1880

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

INDUSTRY, OIL DRILLING OFFSHORE PLATFORMS MBL
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 30A
MILITARY, ARTILLERY BUILDUP NONDIVISIONAL
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 35D

UR
NPIC NO :
COMIREX NO:
UR
NPIC NO :
COMIREX NO:

NPIC MCS MCS004-78

AUG 78

SEC CLASS: 14

MSN:

44P

ACCN: S084811

25X1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 60A

NPIC NO :
COMIREX NO:

25X1

25X1

NPIC IIR

IIR056-78

AUG 78

SEC CLASS: 14D

MSN:

4P

ACCN: S084813

25X1

SEMIPALATINSK NWPG PNUTS FACILITY WPNS LAB
WAC NO : 0238 BE/OBJ NO:
IDHS CODE: EPF CAT : 55A

UR 501100N 0782200E
NPIC NO : - 33-H
COMIREX NO:

25X1

25X1

A WEATHER BALLOON AND TWO HIP HELICOPTERS OBSERVED FOR THE FIRST TIME AT SEMIPALATINSK PNUTS, USSR, ARE INDICATIONS THAT A TRANSIENT OPERATION WAS CONDUCTED ON OR ABOUT 3 JULY 1978. THE OPERATION WAS POSSIBLY A SYSTEM TEST OR CHECKOUT INVOLVING THE RELEASE OF TOXIC OR RADIOACTIVE EMISSIONS. THE HELICOPTERS MAY HAVE BROUGHT HIGH-RANKING VISITORS TO THE SITE TO OBSERVE THE OPERATION.

25X1

1881
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0448 BE/OBJ NO: [] NPIC NO : - 24
 IDHS CODE: [] EPF CAT : 85G COMIREX NO: []
 SIDI MUHAMMED EL GARRARI RAILYARD ARMOR MOV EG 311200N 0255420E
 WAC NO : 0448 BE/OBJ NO: [] NPIC NO : - 24
 IDHS CODE: [] EPF CAT : 35 COMIREX NO: []

25X1
25X1
25X1
25X1

MAJOR ELEMENTS OF A TANK BATTALION HAVE ARRIVED AT THE SIDI MUHAMMED EL GARRARI RAILYARD SINCE []
 THESE MAY BE THE SAME TANKS SEEN BEING LOADED ONTO FLATCARS AT AS SALLUM RAILROAD YARD []

25X1
25X1

25X1

DIA NBRG NDA06-5133-77 17 AUG 78 SEC CLASS: 05G MSN: 1P ACCN: S084839

SOVETSKAYA GAVAN SUBMARINE BASE

WAC NO : 0204

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75A

UR 490125N 140131E

NPIC NO : - 29-C

COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5134-77 17 AUG 78

SEC CLASS: 05G MSN: 1P

ACCN: S084840

SOVETSKAYA GAVAN RESERVE FLEET BASE

WAC NO : 0204

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75A

UR 490048N 140134E

NPIC NO : - 35-62

COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5124-77 18 AUG 78

SEC CLASS: 05B MSN: 1P

ACCN: S084841

NOVOSIBIRSK NAVAL MISSILE TRSHPMT STORAGE CTR

WAC NO : 0162

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 40G

UR 551338N 0825942E

NPIC NO : - 7-12

COMIREX NO: []

25X1
25X1

DIA IIM 5B1-58903-78 29 AUG 78

SEC CLASS: 14B MSN: []

5P

ACCN: S084842

PILA SIGNAL BARRACKS 205 PROB

WAC NO : 0169

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

PL 530958N 0164530E

NPIC NO : []

COMIREX NO: []

25X1
25X1

DIA IIM 5B1-58915-78 24 AUG 78

SEC CLASS: 14 MSN: []

3P

ACCN: S084843

KALUGA AVTOKOLONNA 1152

UR 543122N 0361725E

25X1

1887

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

WAC NO : 0167

IDHS CODE:

BE/OBJ NO:

EPF CAT : 85A

NPIC NO :

COMIREX NO:

25X1
25X1

DIA IIM 5B1-58916-78 29 AUG 78



SEC CLASS: 14

MSN:

4P

ACCN: 5084844

TOMASZOW MAZOWIECKI MILITARY GENERAL STAFF

WAC NO : 0232

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35F

PL 512950N 0200420E

NPIC NO : - 179-B

COMIREX NO:

25X1
25X1



25X1

DIA IIM 5B3-58919-78 30 AUG 78



SEC CLASS: 13

MSN:

1P

ACCN: 5084844

AFRIKANDA AIRFIELD DRONE/GLIDE TARGET SEARCH

WAC NO : 0091

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05A

UR 672723N 0324731E

NPIC NO : - 1

COMIREX NO:

25X1
25X1



25X1

1888
TOP SECRET CHESS RUFF



25X1

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
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


TOP SECRET CHESS RUFF



25X1
25X1

NPIC MEMO  31 AUG 78  SEC CLASS: 14B MSN:  2P ACCN: S08485 

SPASSK RYAZANSKIY RADIO INTERCEPT SCHOOL SRCH UR 5424 N 04023 E
WAC NO : 0166 RE/OBJ NO: NPIC NO :
IDHS CODE:  EPF CAT : 250 COMIREX NO:

25X1
25X1



1890
TOP SECRET CHESS RUFF



25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 01 SEP 78 SEC CLASS: 14B MSN: 2P ACCN: 5084886 25X1

STEPNYAK RADIO RELAY + TV RELAY STATION
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 61
IDHS CODE: EPF CAT : 25D COMIREX NO:
STEPNYAK RADIO RELAY + TV RELAY STATION
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 61
IDHS CODE: EPF CAT : 25B COMIREX NO:
STEPNYAK RADIO RELAY STATION
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 45-A
IDHS CODE: EPF CAT : 25D COMIREX NO:
KARABULAK RADIO RELAY STATION
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 39-D
IDHS CODE: EPF CAT : 25D COMIREX NO:
YENBEKSHILDERSKIY RADIO RELAY STATION
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 65
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

NPIC MEMO 05 SEP 78 SEC CLASS: 14D MSN: 2P ACCN: 5084886 25X1

YEROFEY PAULOVICH RADIO RELAY STATION
WAC NO : 0198 BE/OBJ NO: NPIC NO : - 239
IDHS CODE: EPF CAT : 25D COMIREX NO:
URUSHA RADIO RELAY STATION
WAC NO : 0198 BE/OBJ NO: NPIC NO : - 239
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

1898
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 29	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
SKOVORODINO RADIO RELAY STATION		UR 535626N 1235929E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 5-C3	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TALDAN RADIO RELAY STATION		UR 534353N 1245150E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 32	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
MAGDAGACHI RADIO RELAY STATION		UR 532140N 1254220E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 4-B	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TYGDA RADIO RELAY STATION		UR 530305N 1261542E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 8-R	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
SIVAKI RADIO RELAY STATION		UR 523808N 1264414E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 240	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
MUKHINO RADIO RELAY STATION		UR 521559N 1271136E	
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 236-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

THIS MEMO DESCRIBES THE NUMBER, TYPE AND ORIENTATION OF RADIO-RELAY ANTENNAS AND DETERMINES THE
CURRENT STATUS OF THE RADIO-RELAY STATIONS IN THE MUKHINO-TALDAN RADIO-RELY LINE. []

25X1
25X1

AF ENDR B3005-78 30 JUN 78

SEC CLASS: 04

MSN:

1P

ACCN: 5084887

AIRCRAFT: FOXBAT B MIG-25 CAMERA PACKAGE

UR

WAC NO :
IDHS CODE:BE/OBJ NO: []
EPF CAT : 05DNPIC NO :
COMIREX NO:

25X1

25X1

1899
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 05D COMIREX NO:
MISSILES, AS-4 BEAR C TU-95 MODIFIED MOUNTED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40J COMIREX NO:

25X1

AF ENDR D6546-7-71 23 JUN 78 SEC CLASS: 13 MSN: 1P

ACCN: S08489025X1

IVANKOVSKIY GUIDED MISSILE PLANT UR 564521N 0370700E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 18-A
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-510 AND 78-625.*

AF ENDR D6509-1-76 15 JUN 78 SEC CLASS: 13 MSN: 1P

ACCN: S08489125X1

KAPUSTIN YAR MTC CPLX C SITE 1 ALIGNMENT PSTN UR 483658N 0461800E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-A1
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-542 AND 78-620.*

AF ENDR D6527-78 30 JUN 78 SEC CLASS: 13 MSN: 1P

ACCN: S08489225X1

SHCHELKOVO COSMONAUT TRAINING FACILITY UR 555233N 0380654E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 169
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-619 AND SUPERSEDES DRAWING 69C6578.*

25X1

1900
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-542, 78-607 AND 78-550.*

AF ENDR D4503-78 07 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084895 25X1

KURUMUCH ROCKET ENG TEST FAC LIQ HYDROGEN PLT UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

KURUMUCH ROCKET ENG TEST FAC LIQ HYDROGEN PLT UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38 25X1
IDHS CODE: [] EPF CAT : 30F COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-536.*

AF ENDR D6509-78 12 MAR 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084896 25X1

KIYEV AERODYNAMIC TEST FACILITY UR 504450N 0303120E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 29-55 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-556.*

AF ENDR C4512-1-77 16 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084897 25X1

PRIMORSK ROCKET ENGINE TEST FAC TEST STAND 1 UR 601838N 0285121E
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 51-A 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-590.*

AF ENDR C4513-1-77 16 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084898 25X1

PRIMORSK ROCKET ENGINE TEST FAC TEST STAND 2 UR 601838N 0285121E
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 51-A 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-590 AND SUPERCEDES DRAWING 71C3503.*

AF ENDR C4514-1-77 16 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084899 25X1

PRIMORSK ROCKET ENGINE TEST FAC TEST STAND 3 UR 601838N 0285121E
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 51-A 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

1901
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-590 AND SUPERCEDES 71C3503.*

AF ENDR D6517-78 16 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0849025X1
PRIMORSK ROCKET ENGINE TEST FACILITY UR 601838N 0285121E
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 51-A 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-590 AND SUPERCEDES DRAWING 69D6548/2.*

AF ENDR C6519-1-77 28 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0849025X1
LENINGRAD AIRCRAFT ENGINE PLANT 117 UR 595851N 0302023E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-H 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PARS 77-625 AND 78-631 AND SUPERCEDES DRAWING 71B6531/5.*

AF ENDR C6547-1-71 30 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0849025X1
MOSKVA AVIATION TECHNOLOGY/PROD RESEARCH [] UR 554558N 0373653E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 71-660 AND SUPERCEDES DRAWING 67C6588. PAR 78-627 WITH DRAWING 78B6530 IS ALSO REFERENCED.*

AF ENDR B6532-78 11 JUL 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0849025X1
MOSKVA MACHINE EQUIP PLT 17 TOROPOV DSGN BUR UR 554930N 0372615E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 30C COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-635.*

AF ENDR B6530-78 30 JUN 78 [] SEC CLASS: 13 MSN: 1P ACCN: S0849025X1
MOSKVA AVIATION TECHNOLOGY/PROD RESEARCH [] UR 554558N 0373653E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 78-627.*

1902
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR D6505-1-73 26 MAY 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084905 25X1

MOSKVA MEDICAL + BIOLOGICAL PROBLEMS INST NEW UR 555515N 0372350E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 100-A3
IDHS CODE: [] EPF CAT : 65A COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 78-615.*

AF ENDR D3503-1-78 18 JUL 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084906 25X1

SARY SHAGAN MTC R+D CPLX OPTICAL DVC CMPNTS UR 455200N 0733100E
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 38-A
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR'S 78-548 AND 78-636.*

AF ENDR E6525-5-67 16 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084907 25X1

KURUMUCH ROCKET ENGINE TEST FACILITY UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 67-564, 69-782, 71-617, 73-608, 77-666, AND 78-536.*

AF ENDR E3502-78 07 FEB 78 [] SEC CLASS: 13 MSN: 1P ACCN: S084908 25X1

KURUMUCH ROCKET ENGINE TEST FAC LIQ HYDRO PLT UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

KURUMUCH ROCKET ENGINE TEST FAC LIQ HYDRO PLT UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38
IDHS CODE: [] EPF CAT : 30F COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 78-536.*

AF ENDR E1016-78 07 AUG 78 [] SEC CLASS: 05 MSN: 1P ACCN: S084909 25X1

AIRCRAFT, BLINDER C TU-22 UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 05D COMIREX NO:

25X1

THIS DRAWING SUPERSEDES DRAWING 70E1030.*

1903
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF ENDR E6563-b-70 05 JUN 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: 508491025X1
 TAGANROG AIRFRAME PLANT DIMITROV 86 UR 471150N 0385220E
 WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 38-D 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
 THIS DRAWING SUPPLEMENTS PAR'S 70-690, 72-526, 77-627 AND 78-618.*

AF ENDR E1505-78 28 APR 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: 508491125X1
 MISSILES, ICBM TYPE 3H SILO ANALYSIS UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
 THIS DRAWING SUPPLEMENTS PAR 78-607 AND SUPERSEDES DRAWING 76E1515/1.*

AF PAR 590-78 24 JUL 78 [] SEC CLASS: 13 MSN: [] 21P ACCN: 508491225X1
 PRIMORSK ROCKET ENGINE TEST FACILITY UR 601838N 0285121E
 WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 51-A 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
 THIS REPORT AND THE REFERENCED DRAWINGS (78D6517, 77C4512/1, 77C4513/1, 77C4514/1, 73D1001) PROVIDE AN
 UPDATED CHRONOLOGICAL PHOTO ANALYSIS OF THE PRIMORSK ROCKET ENGINE TEST FACILITY. IT INCLUDES A DETAILED
 CHRONOLOGICAL PHOTO ANALYSIS OF THE CONSTRUCTION AND TESTING OF TEST STANDS 1, 2, AND 3, A PHOTO ANALYSIS
 OF A SPECIAL ELEVEN-CAR TRAIN, AND AN ANALYSIS OF FACILITY SECURITY.
 THIS REPORT SUPERSEDES PAR'S 71-514 AND 77-668. INFORMATION CONTAINED IN THOSE PAR'S WHICH IS STILL
 CONSIDERED VALID HAS BEEN INCLUDED IN THIS REPORT. DRAWING NUMBER 78D6517 SUPERSEDES 69D6548/2.*

AF PAR 607-78 13 JUL 78 [] SEC CLASS: 13 MSN: [] 11P ACCN: 508491325X1
 MISSILES, ICBM TYPE 3H SILO UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
 MISSILES, ICBM TYPE 3D/3H CONVERSION UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
 THIS REPORT IS A CHRONOLOGICAL UPDATE OF THE TYPE 3H SILO. IT INCLUDES ANALYSIS OF THE ORIGINAL AND
 MODIFIED TYPE 3D TO TYPE 3H CONVERSIONS.
 THE REFERENCED DRAWINGS FOR THIS REPORT ARE 78E1505, 78D4515, 78D3508, AND 78E6522.
 PAR 77-542 PARAGRAPH 3A IS SUPERSEDED BY THIS REPORT. FTD DRAWING 76E1515/1 IS SUPERSEDED BY DRAWING
 78E1505, 'TYPE IIIH SILO ANALYSIS,' AND DRAWINGS 76C4528/1 AND 77C3501 ARE SUPERSEDED BY DRAWINGS

1904
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

7804515, 'TYUKATAM ICBM LAUNCH TEST SITE V4 ANALYSIS,' AND 7803508, 'TYPE IIIH SILO - UPPER SILO DETAILS,' RESPECTIVELY.*

AF PAR 612-78 16 JUN 78 [] SEC CLASS: 13 MSN: 4P ACCN: S084914 25X1

SHENYANG/TUNGHUA TELECOMMUNICATIONS LINE U/G
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 66-H4
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []
 HULANTSUN COMMUNICATIONS SWITCHING FACIL U/G
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 207-B1
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []
 TAYANGWAI TELECOMMUNICATIONS CONTROL FAC U/G
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 50-A1
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []
 SHUANGYANG COMMUNICATIONS FACILITY U/G PROB
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []
 ACHENG COMMUNICATIONS FACILITY U/G PROB
 WAC NO : 0283 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []
 HAERHPIN RADIO COMMUNICATIONS/TROPO STA
 WAC NO : 0283 BE/OBJ NO: [] NPIC NO : - 42-W1
 IDHS CODE: [] EPF CAT : 250 COMIREX NO: []

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
25X1

THIS PAR DESCRIBES THE CABLE LINE/SCAR WHICH RUNS FROM SHENYANG/TUNGHUA UNDERGROUND TELECOMMUNICATIONS LINE TO THE CITIES OF HAERHPIN AND CHANGCHUN. IT INCLUDES DESCRIPTIONS OF POSSIBLE COMMUNICATIONS FACILITIES ALONG THE CABLE LINE/SCAR ROUTE.*

AF PAR 615-78 30 JUN 78 [] SEC CLASS: 13 MSN: [] 20P ACCN: S084915 25X1

MOSKVA MEDICAL + BIOLOGICAL PROBLEMS INST NEW
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 100-A3
 IDHS CODE: [] EPF CAT : 65A COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES AN UPDATED PHOTO ANALYSIS OF THE MOSKVA INSTITUTE OF MEDICAL AND BIOLOGICAL PROBLEMS NEW AND CONTAINS A FUNCTIONAL DESCRIPTION OF EACH SIGNIFICANT BUILDING OR STRUCTURE. THIS REPORT IS KEYED TO DRAWING 7306505/1 AND SUPERCEDES PAR 73-536.*

AF PAR 627-78 17 JUL 78 [] SEC CLASS: 13 MSN: 4P ACCN: S084916 25X1

MOSKVA AVIATION TECHNOLOGY/PROD RESEARCH POSS
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

1905
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT CONTAINS AN ANALYSIS OF THE POSSIBLE MOSKVA RESEARCH INSTITUTE OF AVIATION TECHNOLOGY/PRODUCTION. TWO DEFECTOR REPORTS, AN ATTACHE REPORT WITH HANDHELD PHOTOGRAPHY, AND A 1971 FTD REPORT WITH DRAWING WERE USED AS AIDS IN PREPARING THIS REPORT. DRAWING 78B6530 IS KEYED TO THIS REPORT.*

25X1

AF PAR 635-78 26 JUL 78 SEC CLASS: 13 MSN: 3P ACCN: S084916 25X1

MOSKVA MACHINE EQUIP PLT 17 TOROPOV DSGN BUR UR 554930N 0372615F
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30C COMIREX NO:

25X1

25X1

ROOF COVERAGE, FLOORSPACE, AND IDENTIFICATION OF BUILDING FUNCTION IS PROVIDED FOR THE TOROPOV DESIGN BUREAU AT MOSKVA MACHINE EQUIPMENT PLANT 17. DRAWING 78B6532 IS ASSOCIATED.*

AF PAR 636-78 26 JUL 78 SEC CLASS: 13 MSN: 5P ACCN: S084916 25X1

SARY SHAGAN MTC R+D COMPLEX OPTICAL DEVICE UR 455200N 0733100E
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 38-A
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

THIS REPORT GIVES THE RESULTS OF ANALYSIS OF THE OPTICAL DEVICE AT SARY SHAGAN MTC R+D COMPLEX. IMAGE QUALITY, VIEWING ANGLE, AND PROBABLE CANVAS COVERING PRECLUDE DEFINITE IDENTIFICATION OF COMPONENT CONFIGURATION FOR THE PROBABLE COUNTERWEIGHTS OR IDENTIFICATION OF SHAPE AND DIMENSIONS FOR THE PROBABLE SHIELD/PROTECTIVE COVER (NOTED ON COVERAGE ONLY, WITHIN THE "PROBABLE MIRROR HOUSING"). THE IMAGERY REVIEWED IN THIS STUDY CONFIRMS THE CONCEPTUAL DRAWING AND ASSEMBLY DIAGRAM DEPICTED IN FTD DRAWING 78D3503. ALL DRAWING REFERENCES IN THIS REPORT REFER TO IT.

25X1

25X1

25X1

AF PAR 638-78 27 JUL 78 SEC CLASS: 13 MSN: 2P ACCN: S084921 25X1

AIRCRAFT, FENCEK A SU-19 ARMAMENT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

1906
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MOSKVA/SHCHELKOVO AIRFIELD A/C ARMAMENT DMNS UR 555310N 0380340E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 51
 IDHS CODE: EPF CAT : 05A COMIREX NO:
 AIRCRAFT, BACKFIRE B ARMAMENT DIMENSIONS UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05D COMIREX NO:

DIMENSIONS OF EIGHT DARK-TONED PROBABLE BOMBS IN FRONT OF THE BACKFIRE B, THE NEW MISSILE ON THE
 GROUND TO EITHER SIDE OF THE FENCER A, AND THE UNIDENTIFIED MISSILE MOUNTED TO THE INNER STARBOARD WING
 PYLON OF THE FENCER A ARE PROVIDED FROM ORDNANCE OBSERVED ON DISPLAY AT MOSCOW/SHCHELKOVO AIRFIELD

AF PAR 536-78 29 JUN 78 SEC CLASS: 13 MSN: 9P ACCN: S084921

KURUMUCH ROCKET ENGINE TEST FAC LIQ HYDRO PLT UR 533215N 0495116E
 WAC NO : 0165 BE/OBJ NO: NPIC NO : - 38
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 KURUMUCH ROCKET ENGINE TEST FAC LIQ HYDRO PLT UR 533215N 0495116E
 WAC NO : 0165 BE/OBJ NO: NPIC NO : - 38
 IDHS CODE: EPF CAT : 30F COMIREX NO:

THIS REPORT AND DRAWINGS 7804503 AND 78E3502 GIVE DETAILS OF THE PROBABLE LIQUID HYDROGEN
 MANUFACTURING PLANT ADJACENT TO THE WEST SIDE OF THE KURUMUCH ROCKET ENGINE TEST FACILITY. STRUCTURAL
 DETAILS OF THE PRODUCTION BUILDING, THE MAJOR ADDITION UNDER CONSTRUCTION AT THE WEST END, AND TRENCHING
 AND PIPING CONNECTIONS ARE PRESENTED. THIS REPORT SUPERSEDES PARAGRAPH 3.U. OF PAR 77-666.*

AF PAR 618-78 27 JUN 78 SEC CLASS: 13 MSN: 3P ACCN: S084922

TAGANROG AIRFRAME PLANT 86 BERYEV DESIGN BUR UR 471150N 0385220E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 38-D
 IDHS CODE: EPF CAT : 05G COMIREX NO:

THIS REPORT AND DRAWING NUMBER 70F6563/6 PROVIDES AN UPDATED ANALYSIS OF THE BERYEV DESIGN BUREAU
 LOCATED WITHIN THE TAGANROG AIRFRAME PLANT DIMITROV 86. INCLUDED ARE TABLES REFLECTING FACILITY GROWTH IN
 TERMS OF SQUARE METERS OF ROOF COVERAGE AND FLOORSPACE.
 THIS REPORT SUPPLEMENTS PAR 77-627.*

AF PAR 619-78 19 JUL 78 SEC CLASS: 13 MSN: 11P ACCN: S084923

SHCHELKOVO COSMONAUT TRAINING FACILITY UR 555233N 0380654E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 169
 IDHS CODE: EPF CAT : 40H COMIREX NO:

1907
 TOP SECRET CHESS RUFF

TOP SECRET CHSS RUFF

25X1

THIS REPORT AND DRAWING NUMBER 78D6527 PROVIDES AN UPDATED ANALYSIS OF THE SHCHELKOVO COSMONAUT TRAINING FACILITY. IT IS CONCERNED ONLY WITH THE TRAINING/RESEARCH AREA AND PROVIDES A FUNCTIONAL DESCRIPTION OF EACH SIGNIFICANT BUILDING TOGETHER WITH CONSTRUCTION TIMING, ROOF COVERAGE AND FLOORSPACE. THIS REPORT SUPERSEDES PAR 69-67D AND PARAGRAPH 2A (16) OF PAR 77-733. DRAWING NUMBER 78D6527 SUPERSEDES DRAWING NUMHER 69C6578.*

AF PAR 620-78 26 JUN 78 [] SEC CLASS: 13 MSN: 2P ACCN: S08492425X1
 KAPUSTIN YAR MTC CPLX C SITE 1 ELCT FACS SRCH UR 483658N 0461800E
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-A1 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT UPDATES PAR 76-542 AND IS SUPPLEMENTED BY FTD DRAWING 76D6509/1.*

AF PAR 623-78 26 JUN 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S08492525X1
 CHIAOHO RADIO RELAY STATION SUSP IDENT CH 434954N 1272840E 25X1
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 CHIAOHO AW RADAR FACILITY POSS IDENTIFICATION CH 434250N 1273636E
 WAC NO : 0290 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 25A COMIREX NO: [] 25X1

TEN-KILOMETER RADIUS SEARCHES CENTERED AT NINE GEOCOORDINATES IN THE CHANG-CHUN AND HA-FRH-PIN AREAS RESULTED IN THE IDENTIFICATION OF TWO POSSIBLE ELECTRONICS ASSOCIATED FACILITIES.*

AF PAR 624-78 11 JUL 78 [] SEC CLASS: 13 MSN: 16P ACCN: S08492625X1
 SUNGLIN MTC CH 281420N 1020149E 25X1
 WAC NO : 0495 BE/OBJ NO: [] NPIC NO : - 87-C 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 SUNGLIN MTC MISSILE ASSEMBLY/CHECKOUT FACIL CH 281307N 1020132E 25X1
 WAC NO : 0495 BE/OBJ NO: [] NPIC NO : - 87-C4 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 SUNGLIN MTC MAIN SUPPORT BASE CH 281140N 1020653E 25X1
 WAC NO : 0495 BE/OBJ NO: [] NPIC NO : - 87-C3 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 SUNGLIN MTC LAUNCH SITE SUSP U/C CH 281155N 1020337E 25X1
 WAC NO : 0495 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

THIS REPORT AND DRAWING 77D4522 PRESENTS AN IDENTIFICATION AND CHRONOLOGY OF THE SSM-RELATED FACILITIES IN THE VICINITY OF THE VILLAGE OF SUNG-LIN IN SOUTH CENTRAL CHINA. ADDITIONAL REFERENCES FOR THIS REPORT

1908
 TOP SECRET CHSS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ARE PAR 77-722 AND PAR 76-647.*

AF PAR 625-78 28 JUN 78 [] SEC CLASS: 13 MSN: 4P ACCN: S084927 25X1

IVANKOVSKIY GUIDED MISSILE PLANT

WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 18-A
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []25X1
25X1

THIS REPORT IS AN UPDATED PHOTO ANALYSIS OF THE IVANKOVSKIY GUIDED MISSILE PLANT. IT COVERS THE PERIOD FROM SEPTEMBER 1976 TO MAY 1978 AND UPDATES PAR 77-510. IT CONTAINS A FUNCTIONAL DESCRIPTION OF NEW BUILDINGS/STRUCTURES TOGETHER WITH CONSTRUCTION TIMING, ROOF COVERAGE, AND FLOORSPACE. ALSO INCLUDED IS A TABULATION OF HARDWARE OBSERVED SINCE PAR 77-510. ANNOTATIONS ARE KEYED TO DRAWING 7106546/7.*

AF PAR 626-78 27 JUN 78 [] SEC CLASS: 13 MSN: [] 2P ACCN: S084928 25X1

KAPUSTIN YAR MTC SAM TRACKING FACILITY 10

WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-N
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []25X1
25X1

THIS REPORT DESCRIBES THE RADARS AND COMMUNICATION EQUIPMENT SEEN AT KAPUSTIN YAR MTC SPACE LAUNCH COMPLEX INSTRUMENTATION SITE 10 [] THERE WERE NO APPARENT CHANGES AT THE FACILITY [] EXCEPT FOR THE REMOVAL OF ONE SHIP WHEEL RADAR. NO COMMUNICATIONS OR INSTRUMENTATION FACILITIES WERE IDENTIFIED WITHIN A 10-KM SEARCH RADIUS ABOUT THE SITE.*

25X1
25X1

AF PAR 628-78 28 JUN 78 [] SEC CLASS: 13 MSN: [] 3P ACCN: S084929 25X1

KAPUSTIN YAR MTC TELEMETRY/TRACKING FACILITY

WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-B1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []25X1
25X1

THIS REPORT ON KAPUSTIN YAR MTC TELEMETRY/TRACKING FACILITY UPDATES PAR 75-641 AND PARAGRAPH 2C OF PAR 74-624. [] CHANGES NOTED INCLUDE THE CONSTRUCTION OF A BUNKER, AND THE ADDITION OF A POSSIBLE CANAL TRENCH. ELECTRONICS EQUIPMENT OBSERVED AT THE FACILITY IS DISCUSSED.*

25X1

1909
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

THIS REPORT UPDATES PAR 76-591 PARAGRAPH 3N, KAPUSTIN YAR MTC MRBM SUPPORT FACILITY 6, AND PAR 75-551 ON KAPUSTIN YAR MTC INSTRUMENTATION SITE H1. IT INCLUDES A DESCRIPTION OF EACH FACILITY AND A CHRONOLOGY OF ACTIVITY FOR THE REPORTING PERIOD.*

25X1

AF PAR 632-78 10 JUL 78 SEC CLASS: 13 MSN: 5P ACCN: 508493125X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE 1 UR 485932N 0493238E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 40-C
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

THIS REPORT GIVES A CHRONOLOGICAL PHOTO ANALYSIS OF KAPUSTIN YAR INSTRUMENTATION SITE 1 (ALSO KNOWN AS KAPUSTIN YAR-NOVAYA KAZANKA TRACKING FACILITY) FROM JANUARY 1974 TO MARCH 1978. IT UPDATES PAR 72-793. INCLUDED IN THE REPORT IS A TABLE WHICH GIVES APPROXIMATE ANTENNA AZIMUTHS ON MISSIONS WHERE THEY COULD BE DETERMINED.*

AF PAR 651-78 07 AUG 78 SEC CLASS: 13 MSN: 1P ACCN: 508493225X1

HSICHANG CSS-1 CRATERS SEARCH CH 2747 N 10125 E
WAC NO : 0496 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1

DIA IAPPR 187-78 08 AUG 78 SEC CLASS: 25 MSN: 6P ACCN: 508493325X1

PROVIDENIYA PORT FACILITIES T-4 CLASS LCM UR 642543N 1731407W
WAC NO : 0075 BE/OBJ NO: NPIC NO : - 17-A
IDHS CODE: EPF CAT : 75I COMIREX NO:
PROVIDENIYA ARMY BARRACKS AL1 + HQ BRIGADE UR 642454N 1731234W
WAC NO : 0075 BE/OBJ NO: NPIC NO : - 17-K
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

25X1

25X1

A SOVIET EMIGRE WHO SERVED WITH THE GROUND FORCES UNIT AT PROVIDENIYA ON THE BERING SEA RECENTLY PROVIDED USEFUL INFORMATION THAT HAS BEEN LARGELY SUPPORTED BY OTHER DATA. INFORMATION PROVIDED BY THIS SOURCE, WHERE SUPPORTED BY OTHER DATA, IS VALUABLE TO THOSE INTERESTED IN MOSCOW'S PLANS FOR THE BERING SEA REGION. SOVIET ADAPTATIONS OF DOCTRINE TO AN UNUSUAL ENVIRONMENT ARE SEEN IN MOBILITY AND MORILIZATION RESOURCES.*

DIA IAPPR 196-78 16 AUG 78 SEC CLASS: 14 MSN: 6P ACCN: 508493525X1

MILITARY, SELF-PRPLD ARTY WPN LONG-TURED NEW KN
WAC NO : BE/OBJ NO: NPIC NO :

1910
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1
25X1

IDHS CODE: EPF CAT : 35E COMIREX NO:

PYONGYANG HAS RECENTLY DEPLOYED AT LEAST 21 "LONG-TUBE" SELF-PROPELLED (SP) ARTILLERY WEAPONS. WHEREAS THEIR TYPE AND CALIBER ARE NOT KNOWN, THE TUBE ITSELF IS LONGER THAN ANY ARTILLERY PIECE EVER CREDITED TO THE NORTH KOREAN INVENTORY. ALTHOUGH THIS DEVELOPMENT WOULD NOT APPEAR TO SIGNIFICANTLY IMPROVE THE ARMY'S ARTILLERY CAPABILITIES, IT DOES SUGGEST A PERCEIVED NEED FOR LONGER RANGE, MOBILE, HEAVY FIELD PIECES. THEIR MISSION MAY BE TO ENGAGE A SELECT GROUP OF TARGETS WITHIN THE REPUBLIC OF KOREA. SIGNIFICANTLY, THE NORTH HAS BEEN BOTH DEVELOPING AND DEPLOYING LARGE NUMBERS OF VARIOUS SP GUNS SINCE 1973-1974. THE MANUFACTURING/ASSEMBLING PROCESS OF THE PRESENT SP INVENTORY IS BELIEVED TO INVOLVE SEVERAL PLANTS, ALTHOUGH THE EXTENSIVE USE OF UNDERGROUND FACILITIES AT THESE LOCATIONS PRECLUDES AN ACCURATE DETERMINATION OF PRODUCTION RATES AND CAPACITIES. IT CANNOT YET BE ESTABLISHED THAT THESE NEW WEAPONS ARE INDIGENOUSLY PRODUCED. FROM ALL APPEARANCES, HOWEVER, THEY SEEM TO REPRESENT A UNIQUE SYSTEM. THE ADDITION OF THIS NEW LONG-TUBED-TYPE SP ARTILLERY WEAPON TO AN INVENTORY THAT INCLUDES THREE OTHER TYPES OF SP GUNS SUGGESTS A SIGNIFICANT ROLE FOR A DESIRED MIX OF SUCH GUNS IN PYONGYANG'S OVERALL STRATEGY.

25X1

DIA IAPPR 200-78 19 AUG 78 SEC CLASS: 25 MSN: 5P

ACCN: S084935 25X1

MISSILES, BALLISTIC MISSILE GARRISONS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

CONTINUING ANALYSIS OF CHINESE SSM DEPLOYMENT PATTERNS HAS CAUSED A REEVALUATION OF THE CAPACITIES AND CAPABILITIES OF CHINESE MISSILE FACILITIES. THIS HAS DISCLOSED A MISSILE BASING CONCEPT CENTERED AROUND THREE TYPES OF GARRISONS -- SITE, COMPLEX, AND FIELD. EACH GARRISON HAS UNIQUE ADVANTAGES OF READINESS, CONCEALMENT, AND MOBILITY. THE THREE DIFFERENT TYPES OF GARRISONS PERMIT THE DISPERSAL OF CHINA'S MISSILE FORCE AND AFFORD A WIDE RANGE OF OPTIONS FOR SECOND STRIKE NUCLEAR OPERATIONS. FURTHERMORE, THE MOBILITY OF THE UNITS BASED AT THE GARRISONS PROVIDES A HIGH DEGREE OF SURVIVABILITY.

25X1

DIA IAPPR 207-78 31 AUG 78 SEC CLASS: 14Y MSN:

12P

ACCN: S084937 25X1

1911
TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NAVAL, ACTIVITY SOVIET
 WAC NO : BE/ORJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75 COMIREX NO:
 MILITARY, ACTIVITY SOVIET
 WAC NO : BE/ORJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:
 AIRFIELDS, ACTIVITY SOVIET
 WAC NO : BE/ORJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05A COMIREX NO:

THE USSR REPORTEDLY HAS BEEN GIVEN THE RIGHT TO USE ETHIOPIA'S RED SEA FACILITIES AND TO BUILD ITS OWN NAVAL BASE IN THAT COUNTRY AS THE RESULT OF AN AGREEMENT SIGNED LAST MARCH. NO CONSTRUCTION HAS BEEN OBSERVED AT THE PROPOSED BASE SITE, BUT THE SOVIETS ARE UPGRADING A NEARBY AIRFIELD. THEY HAVE ALSO EMPLACED A SHIP REPAIR FACILITY NEAR THE PORT OF MASSAWA AND HAVE IMPROVED ASSAB'S PORT CAPABILITY AND DEFENSES.

IF THE AGREEMENT IS FULLY IMPLEMENTED, THE SOVIETS WILL MORE THAN RECOVER THE MILITARY ACCESS THEY LOST AT BERBERA, SOMALIA, IN NOVEMBER 1977. THE VICISSITUDES OF FUTURE SOVIET-ETHIOPIAN RELATIONS, HOWEVER, WILL PROBABLY PREVENT THE ACCORD FROM BEING COMPLETELY CARRIED OUT, AND SOVIET ACCESS COULD BE LIMITED TO ONLY OCCASIONAL USE AS A RESULT.

DIA STDY DST1020C-587-78 01 JUL 78 SEC CLASS: 24 MSN: 20P ACCN: S084936 25X1

MISSILES, SLBM DEVELOPMENTS
 WAC NO : BE/ORJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40G COMIREX NO:

THIS IS A SEMI-ANNUAL REPORT, ISSUE NO. 3, ON SOVIET SUBMARINE-LAUNCHED BALLISTIC MISSILE RELATED ACTIVITY. ISSUE NO. 1 WAS PUBLISHED 30 JUNE 1977 AND ISSUE NO. 2 ON 1 JANUARY 1978. MISSILE FLIGHT ACTIVITIES, NEW OR INTERESTING ANALYTICAL DEVELOPMENTS, AND DEVELOPMENTS ON NEW OR EMERGING SYSTEMS ARE COVERED IN THIS SLBM ACTIVITY REPORT. THE MISSILE FLIGHT ACTIVITY IN THIS ISSUE COVERS THE 6-MONTH PERIOD, DECEMBER 1977 THROUGH MAY 1978.

DIA STDY DST1430S-024-78 13 JUL 78 SEC CLASS: 25 MSN: 47P ACCN: S084936 25X1

SPACE, SATELLITE SYSTEMS MILITARY SUPPORT
 WAC NO : BE/ORJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40H COMIREX NO:

THIS SUPPLEMENT TO DST-1430S-024-78 CONTAINS AN EXPANDED ASSESSMENT OF SOVIET MILITARY SUPPORT SPACE SYSTEMS BASED ON OVERHEAD PHOTOGRAPHY. IT ALSO PROVIDES ADDITIONAL INFORMATION ON THE CHARACTERISTICS AND CAPABILITIES OF SOVIET NAVAL SUPPORT, GEODETIC, METEOROLOGICAL, RADAR SUPPORT, AND COMMAND SITE CHECKOUT SATELLITES NOT INCLUDED IN DST-1430S-024-78. **MILITARY SUPPORT

25X1

1912
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

SPACE SYSTEMS - USSR,** BECAUSE OF CLASSIFICATION. THESE ADDITIONAL INPUTS PRIMARILY AMPLIFY ANALYSIS OF SATELLITE PAYLOAD SIGNALS AND GROUND COMMAND SITES.*

DIA STDY DST1050D-918-78 21 AUG 78 SEC CLASS: 14 MSN: 30P ACCN: S084940 25X1

ELECTRONICS, FLAT TWIN ABM-X-3 RADAR UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMTEX NO:

THIS BMD ENGAGEMENT RADAR REPORT IS ONE OF A SERIES OF DEFENSE INTELLIGENCE TECHNICAL REPORTS (DITRS) UNDER THE BROAD TITLE OF SOVIET BALLISTIC MISSILE DEFENSE. THIS REPORT DESCRIBES THE FLAT TWIN RADAR IN SOME DETAIL, WITH SIGNAL CHARACTERISTICS, OPERATING MODES, AND PREDICTED PERFORMANCE BEING COVERED.*

25X1

1913
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF STDY AEDCSW-01-02-78

APR 78

SEC CLASS: 14 MSN:

15P

ACCN: 5084942 25X1

NOGINSK BALLISTICS TEST + TRAINING ARFA POSS

UR 555320N 0383450E

WAC NO : 0167

BE/OBJ NO:

NPIC NO : - 121-A3

IUHS CODE:

EPF CAT : 35G

COMIREX NO:

NOGINSK BALLISTICS TEST + TRAINING ARFA POSS

UR 555320N 0383450E

WAC NO : 0167

BE/OBJ NO:

NPIC NO : - 121-A3

IUHS CODE:

EPF CAT : 35R

COMIREX NO:

AT THE REQUEST OF FTD/TQTM, A FACILITY REFERRED TO AS THE NOGINSK FACILITY LOCATED 55-53-20N/38-34-50E SOME 60 KM (37 MILES) NORTHEAST OF MOSCOW HAS BEEN EXAMINED. THE PURPOSE OF THIS EXAMINATION HAS BEEN TO CONFIRM OR DENY PREVIOUS CONCLUSIONS REGARDING ITS FUNCTION AND TO CONSIDER THE POSSIBILITY IT HAS BEEN USED FOR MHD DEVELOPMENT.

THE NOGINSK FACILITY WAS FIRST OBSERVED IN 1961 OR EARLY 1962. UNFORTUNATELY, FOR FUNCTION ANALYSIS PURPOSES, THE FACILITY WAS ESSENTIALLY COMPLETE WHEN FIRST OBSERVED--ONLY A FEW PERIPHERAL BUILDINGS WERE NOT UNDER ROOF. IN 1973 BOTH THE CIA AND SANDIA LABORATORIES TENTATIVELY IDENTIFIED THE FACILITY AS A POSSIBLE AEROBALLISTIC RANGE. IN 1975 [REDACTED] ANALYZED THE NOGINSK FACILITY AND OUTLINED A NUMBER OF REASONS WHY HE BELIEVED IT NOT TO BE AN AEROBALLISTIC RANGE. THIS CURRENT STUDY CONCURS WITH THIS LATTER CONCLUSION. MR. BOYLAN CONSIDERED OTHER POSSIBLE USES FOR THE FACILITY BUT FOUND LITTLE

25X1

1914
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

SUPPORTIVE EVIDENCE FOR THESE OPERATIONS.

25X1

DIA	NBRG	NDA07-5221-78	16 NOV 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S084944
ANIVA ARMY BARRACKS RAILROAD STATION NW 1				UR	464247N 1423140E		
WAC NO : 0281				BE/OBJ NO:	NPIC NO : - 46-C		
IDHS CODE:				EPF CAT : 35A	COMIREX NO:		25X1 25X1
DIA	NBRG	NDA07-5222-78	16 NOV 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S084945
USSURIYSK ARMY BARRACKS SSE AL1				UR	434409N 1320008E		
WAC NO : 0291				BE/OBJ NO:	NPIC NO : - 49-P		25X1 25X1
IDHS CODE:				EPF CAT : 35A	COMIREX NO:		25X1
DIA	STDY	DST1000C-549-78	25 AUG 78	SEC CLASS: 25	MSN:	91P	ACCN: S084946
MISSILES, BALLISTIC MISSILE SYSTEMS ACTIVITY				UR			
WAC NO :				BE/OBJ NO:	NPIC NO :		

1915
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS SEMIANNUAL PUBLICATION REPORTS ON ACTIVITY AND ASSESMENT OF THE SOVIET BALLISTIC MISSILE PROGRAM RELATED TO OPERATIONAL AND EMERGING MRBM, IRBM, AND ICBM SYSTEMS. THE PERIOD COVERED BY THIS REPORT IS 1 JANUARY 1978 THROUGH 30 JUNE 1978.

THIS REPORT IS ACTIVITY ORIENTED AND IS INTENDED FOR CONSUMERS OF CURRENT TECHNICAL INTELLIGENCE IN THE SUBJECT AREA. FOR COMPLETE SYSTEMS ANALYSES AND CHARACTERISTICS, THE READER IS REFERRED TO OTHER FORMAL DOCUMENTS ON THE SPECIFIC SYSTEMS.

NPIC MEMO 18 JUL 78 SEC CLASS: 13 MSN: 2P ACCN: 508494725X1

WUHAN IRON + STEEL PLANT

WAC NO : 0493

IDHS CODE:

BE/OBJ NO:

EPF CAT : 30C

CH 303734N 1142627E

NPIC NO : - 38-H

COMIREX NO:

25X1

25X1

DMA STDY 14 AUG 78 SEC CLASS: 25 MSN: 55P ACCN: 508494825X1

KAMCHATKA MISSILE IMPACT AREAS ACT SUMMARY

WAC NO : 0132

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40

UR 5712 N 16133 E

NPIC NO :

COMIREX NO:

25X1

THIS IS THE THIRD ANNUAL WORKING PAPER ON THE KAMCHATKA IMPACT AREA ACTIVITY. MOST OF THE BACKGROUND DATA PRESENTED IN THE PREVIOUS REPORTS HAS NOT BEEN CHANGED.

THE CONTENTS SUMMARIZE ANOTHER YEAR'S WORK WITH STATISTICS THROUGH OCTOBER 1977. THE STATISTICS ON NUMBER OF IMPACT CRATERS IDENTIFIED AND DATED MAY NOT LOOK AS GOOD AS EXPECTED AND FOR THIS REASON A FEW SOMEWHAT CRITICAL COMMENTS HAVE BEEN MADE.

25X1

25X1

25X1

1916
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA BIIR RCS13-0012-78 AUG 78

SEC CLASS: 05C MSN:

10P

ACCN: S084955

LIPETSK IRON + STEEL PLANT

WAC NO : 0166

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 30C

UR 523325N 0393822E

NPIC NO : - 11-A1

COMIREX NO: [REDACTED]

25X1
25X1

THE LIPETSK IRON AND STEEL PLANT IS PROBABLY THE THIRD LARGEST INTEGRATED IRON AND STEEL PLANT IN THE SOVIET UNION. IN 1974 IT PRODUCED 4,000,000 TONS OF STEEL. OUTPUT INCREASED TO 8,500,000 TONS IN 1977. BY COMPARISON, IN 1977 THE MAGNITOGORSK METALLURGICAL COMBINE PRODUCED 15,500,000 TONS OF STEEL AND THE KRIVYI RIG METALLURGICAL PLANT LENIN PRODUCED 14,000,000 TONS. THE SOVIETS PREDICT AN ANNUAL OUTPUT OF 16,000,000 TONS OF STEEL AT LIPETSK BY 1990.

SOVIET SOURCES INDICATE THAT THE ROLLED STEEL PRODUCTS OF THE PLANT INCLUDE CONSTRUCTION STEEL, SHEET STEEL FOR THE AUTOMOBILE INDUSTRY, STEEL PLATE FOR SHIPBUILDING, STEEL FOR HIGH-PRESSURE PIPE, AND SILICON STEEL FOR ELECTRICAL EQUIPMENT.

1917
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THE PLANT BEGAN OPERATION IN 1934 BUT WAS DESTROYED DURING THE SECOND WORLD WAR. RECONSTRUCTION BEGAN IN 1949 AND BY 1951 THE PLANT WAS OPERATING AGAIN. LIPETSK HAS UNDERGONE MAJOR EXPANSION SINCE 1972 WITH THE CONSTRUCTION OF TWO COKE OVEN BATTERIES, A BLAST FURNACE, A BASIC OXYGEN FURNACE BUILDING, AND A ROLLING MILL. THIS EXPANSION ACCOUNTS FOR THE DOUBLING OF STEEL PRODUCTION BETWEEN 1974 AND 1977.

AT LEAST ONE SEMIDETACHED, ONE POSSIBLE SEMIDETACHED, AND SIX DETACHED CIVIL DEFENSE SHELTERS ARE LOCATED AT THE PLANT. FOUR DETACHED SHELTERS ARE LOCATED AT NEARBY UNIDENTIFIED PLANTS. THESE PLANTS ARE PROBABLY ASSOCIATED WITH THE IRON AND STEEL PLANT.

THIS REPORT CONSISTS OF A DISCUSSION OF THE PLANT AND A PHOTOGRAPH KEYED TO A TABLE LISTING THE PLANT'S MAJOR FACILITIES AND CIVIL DEFENSE SHELTERS.

25X1

1918
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA, STDY, DDB1100-192-78 AUG 78 SEC CLASS: 25 MSN: 10P ACCN: 5084960 25X1

MILITARY, READINESS GRND FORCE BELORUSSIAN MD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

PREVIOUS ANALYSES OF THE READINESS CATEGORIES OF DIVISIONS IN THE BELORUSSIAN MILITARY DISTRICT HAVE BEEN IMPAIRED BY PHOTOGRAPHIC INTELLIGENCE (PHOTINT) DERIVED SIGNATURES. AN EXPANSION OF HUMINT DATA COUPLED WITH REANALYSIS OF PHOTINT NOW PERMITS A REASSESSMENT OF THE READINESS OF DIVISIONS IN BELORUSSIA. THIS STUDY EXAMINES THE READINESS OF DIVISIONS IN BELORUSSIA AND SETS FORTH SOME CONCLUSIONS.

25X1

DOD, STDY 1710-260-012-78 JUN 78 SEC CLASS: 24 MSN: 25P ACCN: 5084961 25X1

ELECTRONICS, CHOP REST AW RADAR DEPLOYMENT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:
ELECTRONICS, TREE FORK 2 AW RADAR DEPLOYMENT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:
ELECTRONICS, SUUJI D AW RADAR DEPLOYMENT CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1

1919
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT PROVIDES BACKGROUND INFORMATION AND ARTIST'S CONCEPTS OF THE CHOP REST, TREE FORK 2 AND SUUJI D (TSR) RADARS. THESE RADARS ARE DEPLOYED IN THE PRC AT SITES INVOLVED WITH BMEWS PRACTICE ACTIVITY AND ALSO AT CONVENTIONAL AIR DEFENSE SITES. SITE CONFIGURATIONS AND DEPLOYMENT PATTERNS ARE DISCUSSED.

DIA IIM 5B1-58940-78 28 AUG 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08496225X1
VOLGOGRAD AVTOKOLONNA 1205 UR 484217N 0442717E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 16-H4
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []

25X1
25X1

DIA IIM 5B1-58953-78 29 AUG 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08496425X1
VOLGOGRAD AVTOKOLONNA 1206 UR 484026N 0442802E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
DIA IIM 5B1-58952-78 30 AUG 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08496525X1
KRASNODAR AVTOKOLONNA 1419 UR 450346N 0385745E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
DIA IIM 5B1-58951-78 30 AUG 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08496625X1
KRASNODAR AVTOKOLONNA 1196 UR 450349N 0385754E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
DIA IIM 5B1-58973-78 08 SEP 78 [] SEC CLASS: 14 MSN: [] 4P ACCN: S08496725X1
DEBLIN MILITARY STORAGE AREA PL 513500N 0214730E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 33-C
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

1920
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 583-58945-78 05 SEP 78 SEC CLASS: 13 MSN: 2P ACCN: S084968

25X1

AMDERMA AIRFIELD FIDDLER TU-128 DERELICT CNT	UR 694553N 0613400E
WAC NO : 0049	BE/OBJ NO: NPIC NO : - 1-A
IDHS CODE: EPF CAT : 05A	COMIREX NO: 25X1
ARKHANGELSK/TALAGI AIRFIELD FIDDLER COUNT	UR 643601N 0404303E
WAC NO : 0092	BE/OBJ NO: NPIC NO : - 1-D
IDHS CODE: EPF CAT : 05A	COMIREX NO: 25X1
SEMIPALATINSK AIRFIELD FIDDLER DERELICT COUNT	UR 502110N 0801357E
WAC NO : 0239	BE/OBJ NO: NPIC NO : - 8
IDHS CODE: EPF CAT : 05A	COMIREX NO: 25X1
OMSK AIRFIELD EAST FIDDLER TU-128 COUNT	UR 545824N 0733319E
WAC NO : 0163	BE/OBJ NO: NPIC NO : - 5-G
IDHS CODE: EPF CAT : 05A	COMIREX NO: 25X1
BELAYA AIRFIELD FIDDLER TU-128 COUNT	UR 525454N 1033434E
WAC NO : 0200	BE/OBJ NO: NPIC NO : - 2
IDHS CODE: EPF CAT : 05A	COMIREX NO: 25X1

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DIA IIM 583-58983-78 11 SEP 78 SEC CLASS: 13 MSN: 2P ACCN: S084970

25X1

1921
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KUNGRAD AIRFIELD POL STORAGE CAPACITY UR 430500N 0585500E
WAC NO : 0326 BE/OBJ NO: NPIC NO : - 23
IDHS CODE: EPF CAT : 05I COMIREX NO:
DIA IIM 5B3-58984-78 11 SEP 78 SEC CLASS: 13 MSN: 2P ACCN: S08497125X1
UST KAMENOGORSK AIRFIELD POL STORAGE CAPACITY UR 500212N 0822943E
WAC NO : 0239 BE/OBJ NO: NPIC NO : - 12-F
IDHS CODE: EPF CAT : 05I COMIREX NO:
DIA IIM 5B3-58986-78 11 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08497125X1
KHARKOV/LYUBOTIN AIRFIELD UR 495834N 0360043E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 15-F
IDHS CODE: EPF CAT : 05A COMIREX NO:
DIA IIM 5B3-58985-78 11 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08497125X1
MUYNAC AIRFIELD UR 434530N 0590120E
WAC NO : 0327 BE/OBJ NO: NPIC NO : - 14
IDHS CODE: EPF CAT : 05A COMIREX NO:
DIA IIM 5B3-58961-78 07 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08497125X1
VUKTYL AIRFIELD UR 634909N 0571645E
WAC NO : 0100 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:
DIA IIM 5B3-58974-78 07 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08497125X1
DAUGAVPILS AIR FORCE ACADEMY BACKFIRE SEARCH UR 555310N 0262920E
WAC NO : 0168 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05 COMIREX NO:
CIA STDY SR10132J-78 AUG 78 SEC CLASS: 25 X MSN: 43P ACCN: S08497125X1
MISSILES, SA-X-10/CRUISE MISSILE DEF ROLE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40C COMIREX NO:
MISSILES, SA-X-10/CRUISE MISSILE DEF ROLE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40K COMIREX NO:

1922
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS PAPER FOCUSES ON THE SOVIETS NEW SA-X-10 SURFACE-TO-AIR MISSILE WHICH APPEARS TO OFFER SOME POTENTIAL FOR DEFENSE AGAINST CRUISE MISSILES. TAKING THE KNOWN AND ESTIMATED CHARACTERISTICS OF THE SA-X-10, THE ANALYSIS POSTULATES A NATIONWIDE DEPLOYMENT OF THE SYSTEM AND USES A COMPUTER SIMULATION TO ASSESS THE EFFECTIVENESS OF SUCH A DEPLOYED FORCE AGAINST A HYPOTHETICAL CRUISE MISSILE ATTACK.

DIA STDY DDB1900-003-78

JUL 78

SEC CLASS: 25 MSN:

36P

ACCN: S084977

25X1

TANGSHAN EARTHQUAKE RECOVERY PRIORITIES

WAC NO : 0381

CH 3937 N 11811 E

IDHS CODE:

BE/OBJ NO:

NPIC NO : - 65

EPF CAT : 10D

COMIREX NO:

25X1

25X1

RECOVERY OPERATIONS FROM THE MASSIVE EARTHQUAKE THAT STRUCK THE CITY OF TANGSHAN, CHINA, ON [REDACTED] ARE PROCEEDING AT A SLOW BUT STEADY PACE. RECOVERY SINCE FEBRUARY 1977 INDICATES THAT THE FEW INSIGNIFICANT MILITARY AREAS DAMAGED HAVE BEEN ONLY PARTIALLY REBUILT WHILE THE MAJOR TRANSPORTATION AND TELECOMMUNICATIONS FACILITIES ARE BELIEVED TO BE BACK IN OPERATION. WITHIN THE MANUFACTURING INDUSTRY, THE MAJOR RECONSTRUCTION EMPHASIS WAS ON THOSE FACILITIES THAT COULD BE QUICKLY REBUILT PLUS THOSE THAT COULD AID OTHER REBUILDING, SUCH AS THE STEEL MILL, THE CEMENT PLANT, AND NUMEROUS BRICKYARDS. THE COAL MINES AND ELECTRIC POWER FACILITIES ALSO RECEIVED HIGH PRIORITY. THE MAJOR AREA OF CONCERN AFTER THE EARTHQUAKE WAS THE CONSTRUCTION OF TEMPORARY HOUSING FOR THE APPROXIMATELY 600,000 PEOPLE WHO REMAINED IN THE CITY WITH A PREQUAKE POPULATION OF SLIGHTLY OVER 900,000. THE CHINESE RELIEF AND RECOVERY RESPONSE TO THE EARTHQUAKE INDICATE THAT THE CITY OF TANGSHAN WILL BE REBUILT AT ITS PREVIOUS LOCATION, ALTHOUGH THE PACE FOR MOST RECONSTRUCTION WILL BE RELATIVELY SLOW BECAUSE OF THE CHINESE POLICY OF SELF-RELIANCE.

25X1
25X1

THIS STUDY OF THE RECOVERY PRIORITIES FROM THE TANGSHAN EARTHQUAKE IN THE PRC IS A FOLLOW-ON ANALYSIS OF DDI-1900-3-77-SAO, ENTITLED THE TANGSHAN EARTHQUAKE: EFFECTS AND RECOVERY. THE INFORMATION CUTOFF DATE IS 15 JANUARY 1978.

25X1

1923

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY PIM PIM052-78 17 JUL 78 SEC CLASS: 14E MSN: 3P ACCN: 50849825X1

CHINGYUAN RADIO RELAY STATION NORTH CH 235003N 1130141E
WAC NO : 0614 BE/OBJ NO: NPIC NO : - 93
IDHS CODE: EPF CAT : 250 COMIREX NO:

25X1
25X15X1

ARMY PIM PIM058-78 02 AUG 78 SEC CLASS: 14E MSN: 4P ACCN: 50849825X1

KUANGCHOU RADIO COMMUNICATIONS TRANSMITTER CH 230809N 1131712E
WAC NO : 0614 BE/OBJ NO: NPIC NO : - 2-W5
IDHS CODE: EPF CAT : 250 COMIREX NO:

25X1
25X1

ARMY PIM PIM062-78 02 AUG 78 SEC CLASS: 14E MSN: 4P ACCN: 50849825X1

SHANTOU RADIO COMMUNICATIONS TRANSMITTER 1 CH 232450N 1164030E
WAC NO : 0614 BE/OBJ NO: NPIC NO : - 37-T4
IDHS CODE: EPF CAT : 250 COMIREX NO:

25X1
25X1

25X1

1924
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-59500-78 13 SEP 78

SEC. CLASS: 13 MSN:

1P

ACCN: 5084992

25X1

AFRIKANDA AIRFIELD CRATES SEARCH

WAC NO : 0091

BE/OBJ NO:

UR 672723N 0324731E

NPIC NO : - 1

IDHS CODE:

EPF CAT : 05A

COMIREX NO:

25X1

25X1

1927

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-59000-78 06 SEP 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08499 [] 25X1
JELGAVA AVTOKOLONNA 2853 UR 563400N 0234400E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B1-58982-78 13 SEP 78 [] SEC CLASS: 14B MSN: [] 2P ACCN: S08499 [] 25X1
RADZYN PODLASKI AIR AMMUNITION DEPOT PL 514532N 0225322E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 147-A 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B1-58981-78 07 SEP 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08499 [] 25X1
TAMBOV AVTOKOLONNA 1139 UR 524432N 0412740E
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B1-58967-78 SEP 78 [] SEC CLASS: 14 MSN: [] 3P ACCN: S08499 [] 25X1
RYAZAN AVTOKOLONNA 1132 UR 544730N 0394618E
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA IIM 5B3-59002-78 12 SEP 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08499 [] 25X1
CHOSZCZNO TACTICAL SSM BKS 1 HELI PADS IDENT PL 530959N 0152625E
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 270-A 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
CHOSZCZNO TACTICAL SSM BKS 1 HELI PADS IDENT PL 530959N 0152625E
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 270-A 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: [] 25X1

1928

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-59003-78 12 SEP 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S084999 25X1
ORZYSZ TACTICAL SSM BKS + AMMO DEPOT 1/501 PL 521740N 0211050E
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 114-L1 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: 25X1
ORZYSZ TACTICAL SSM BKS + AMMO DEPOT 1/501 PL 521740N 0211050E 25X1
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 114-L1 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1

DIA IIM 5B3-59001-78 12 SEP 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S085000 25X1
BIEDRUSKO MILITARY TRNG 401 HELI FACS SEARCH PL 523247N 0165640E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 35B COMIREX NO: 25X1
BIEDRUSKO MILITARY TRNG 401 HELI FACS SEARCH PL 523247N 0165640E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: 25X1
BIEDRUSKO MILITARY TRNG 402 HELI FACS SEARCH PL 523219N 0165640E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 35B COMIREX NO: 25X1
BIEDRUSKO MILITARY TRNG 402 HELI FACS SEARCH PL 523219N 0165640E 25X1
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: 25X1

DIA IIM 5B3-59706-78 27 SEP 78 [] SEC CLASS: 13 MSN: [] 1P ACCN: S085002 25X1
LENINGRAD PHYSICS TECHNICAL INSTITUTE UR 600044N 0302230E 25X1
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 42-F1 25X1
IDHS CODE: [] EPF CAT : 65A COMIREX NO: 25X1

1929
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
DIA IIM 5B1-59586-78 26 SEP 78 [] SEC CLASS: 14 MSN: [] 4P ACCN: S08500 25X1
ALMA ATA AVTOKOLONNA 2551
WAC NO : 0329 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1

DIA NBRG NDA06-5128-77 28 AUG 78 SEC CLASS: 05A MSN: [] 1P ACCN: S085008

TARABULUS PORT FACILITIES
WAC NO : 0423 BE/OBJ NO: [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 75I COMIREX NO: [] 25X1

1930
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC PIR PIR040-78 SEP 78 SEC CLASS: 25E MSN: 12P

ACCN: S085025X1

MILITARY, GROUND FORCES KUANGCHOU MIL REGION CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT DISCUSSES THE PEOPLES LIBERATION ARMY'S (PLA) MAIN GROUND FORCE UNITS IN THE CANTON MILITARY REGION IN THE PEOPLE'S REPUBLIC OF CHINA (PRC). THE FUNCTIONS AND LOCATIONS OF THESE UNITS WERE IDENTIFIED PRIMARILY FROM KEYHOLE IMAGERY. COMINT, SIGINT, AND HUMINT WERE USED PRIMARILY FOR NUMBERED UNIT DESIGNATORS.

THE GROUND FORCES IN THE CANTON MILITARY REGION (CMR) HAVE THE SAME GENERAL ORGANIZATIONAL STRUCTURE AS

1932
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
ZNA

THE GROUND FORCES OBSERVED THROUGHOUT THE PRC--THE RULE OF THREE. SUBORDINATE TO CMR HEADQUARTERS ARE THREE ARMIES AND VARIOUS INDEPENDENT UNITS. THE INDEPENDENT UNITS INCLUDE AN ARTILLERY DIVISION, AN ANTI-AIRCRAFT ARTILLERY (AAA) DIVISION, A SIGNAL REGIMENT, TWO ENGINEER REGIMENTS, FIVE MOTOR TRANSPORT REGIMENTS, A PROBABLE AIRBORNE/RECONNAISSANCE UNIT, AND A MILITARY REGION PROBABLE TRAINING UNIT.

THIS REPORT INCLUDES FOUR LOCATION MAPS, THREE ANNOTATED PHOTOGRAPHS, AND FOUR TABLES LISTING THE MAIN FORCE UNITS BY UNIT SUBORDINATION.

CIA BIIR RCS13-0013-78

AUG 78

SEC CLASS: 14 Y MSN:

7P

ACCN: 5085017 25X1.1

CHELYABINSK STEEL PLANT BAKAL

UR 551621N 0612659E

WAC NO : 0164

BE/OBJ NO:

NPIC NO : - 3-C

IDHS CODE:

EPF CAT : 30C

COMIREX NO:

25X1
25X1
ZNA

THE CHELYABINSK IRON AND STEEL PLANT BAKAL IS PROBABLY THE SIXTH LARGEST PRODUCER OF STEEL IN THE SOVIET UNION. THE PLANT PRODUCED BETWEEN 6,000,000 AND 7,000,000 TONS OF STEEL IN 1976. PLANT PRODUCTS INCLUDE STEEL CABLE, PIPE, PLATE, SHEETS, BARS, STRUCTURAL SECTIONS, BALL BEARINGS, AND TOOL STEEL. AN ALLOY STEEL WHICH IS APPARENTLY SUITABLE FOR USE IN ROCKET AND MISSILE MOTOR CASES AND CHROMIUM AND MOLYBDENUM ALLOY STEELS ARE REPORTEDLY PRODUCED AT CHELYABINSK.

MAJOR CONSTRUCTION AT CHELYABINSK SINCE MID-1972 HAS CONSISTED OF COMPLETION OF A ROLLING MILL, AN ADDITION TO A ROLLING MILL, AN ADDITION TO AN UNIDENTIFIED FABRICATION BUILDING, AND AN ADDITION TO A PROBABLE REFRACTORY BRICK PLANT. IN APRIL 1978, A LARGE, UNIDENTIFIED BUILDING WAS IN THE EARLY STAGE OF CONSTRUCTION AND A ROLLING MILL WAS BEING EXPANDED.

EIGHT DETACHED CIVIL DEFENSE SHELTERS HAVE BEEN IDENTIFIED AT THE IRON AND STEEL PLANT AND TWO PROBABLE BASEMENT SHELTERS WERE UNDER CONSTRUCTION IN APRIL 1978. IN ADDITION, FIVE DETACHED SHELTERS HAVE BEEN IDENTIFIED AT TWO NEARBY PLANTS--FOUR AT A PROBABLE FERRO-CONCRETE PRODUCTS PLANT AND ONE AT AN UNIDENTIFIED PLANT.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE PLANT AND A TABLE LISTING ITS MAJOR FACILITIES AND CIVIL DEFENSE SHELTERS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE PLANT.

25X1

1933

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 14 SEP 78 SEC CLASS: 14B MSN: 3P ACCN: S085021

VOROSHILOVGRAD RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 47-B2 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

SEMOYKINO RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 47-K1 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

ROVENKI RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 37-B 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

ZAPADNAYA/KAPITALNAYE RADIO RELAY STATION
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 139 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

RODIONOVO/NESVETAYSKOYE RADIO RELAY STATION
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 86 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

MILLEROVO RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 92-A2 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

GLUBOKIY RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 142 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

ZVEREVO RADIO RELAY STATION
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 13-E 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

SHAKHTY RADIO RELAY STATION
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 62-C1 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

THIS MEMO DESCRIBES THE CURRENT STATUS OF RADIO RELAY STATIONS ALONG THE ROSTOV AREA RADIO RELAY LINES.

25X1

DIA NBRG NDA07-5150-78 20 SEP 78 SEC CLASS: 056 MSN: 1P ACCN: S085021

STAROSYSOYEVKA ARMY BARRACKS AL1
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 49-A1 25X1

25X1

1934
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5151-78 20 SEP 78 SEC CLASS: 05G MSN: 1P ACCN: S085022

GUSINOOZERSK MILITARY BARRACKS AL1 + HQ MRD UR 511930N 1062715E

WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 200-A 25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5152-78 20 SEP 78 SEC CLASS: 05B MSN: 1P ACCN: S085023

BAYRAM ALI ARMY BARRACKS AL2 UR 373700N 0620915E

WAC NO : 0337 BE/OBJ NO: [] NPIC NO : - 11-D 25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5132-78 20 SEP 78 SEC CLASS: 05G MSN: 1P ACCN: S085024

BULGAN ARMY BARRACKS AL1 MG 483454N 1032803E

WAC NO : 0241 BE/OBJ NO: [] NPIC NO : - 7 25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5133-78 20 SEP 78 SEC CLASS: 05G MSN: 1P ACCN: S085025

CHOYBALSAN MILITARY BARRACKS AL5 + HQ TK DIV MG 480333N 1143755E

WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 51-B7 25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5149-78 20 SEP 78 SEC CLASS: 05B MSN: 1P ACCN: S085028

YAMBOL ARMY BARRACKS 1 BU 422901N 0263120E

WAC NO : 0322 BE/OBJ NO: [] NPIC NO : - 103-A 25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

1935
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NBRG NDA07-5153-78 20 SEP 78 SEC CLASS: 05B MSN: 1P ACCN: S085029

TSELINOGRAD ARMY BARRACKS AL1

WAC NO : 0238

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

UR 511052N 0712313E

NPIC NO : - 1-A2

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5154-78 20 SEP 78 SEC CLASS: 05B MSN: 1P ACCN: S085030

BOBRUYSK ARMY BARRACKS AL2/HQ TK ARMY/TK DIV

WAC NO : 0168

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

UR 530830N 0291438E

NPIC NO : - 11-B

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5155-78 20 SEP 78 SEC CLASS: 05B MSN: 1P ACCN: S085031

BAYRAM ALI TACTICAL SS-1 BARRACKS AL1

WAC NO : 0337

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

UR 373616N 0621030E

NPIC NO : - 11

COMIREX NO:

25X1
25X1
25X1

1936
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
23A1

25X1

DIA NBRG NDA07-5100-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085049

YUHSIEN ARMY BARRACKS AL1

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 340910N 1132630E

NPIC NO : - 11-A2

COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5101-78 22 SEP 78 SEC CLASS: 05G MSN: 0035P ACCN: S085050

SHANGCHIU MILITARY AREA 1

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35

CH 3427 N 11539 E

NPIC NO : -

COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5102-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085051

SHANGCHIU MILITARY BKS AL5/HQ INF DIV/SCHOOL

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 342558N 1153740E

NPIC NO : - 5-A

COMIREX NO: []

25X1
25X1

SHANGCHIU MILITARY BKS AL5/HQ INF DIV/SCHOOL

WAC NO : 0385

BE/OBJ NO: []

CH 342558N 1153740E

NPIC NO : - 5-A

25X1

1939
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []		EPF CAT : 35B	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5103-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085052
SHANGCHIU ARMY BARRACKS SW AL3		CH 342301N 1153450E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : - 55-	25X1
IDHS CODE: []		EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5104-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085053
SHANGCHIU ARMY BARRACKS AL2		CH 342557N 1153840E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : - 55-A	25X1
IDHS CODE: []		EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5105-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085054
SHANGCHIU ARMY BARRACKS AL4/HQ INFANTRY DIV		CH 342350N 1153718E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : - 5-B	25X1
IDHS CODE: []		EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5106-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085055
MINGCHIANG MILITARY AREA 1		CH 3228 N 11403 E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []		EPF CAT : 35	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5107-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085056
MINGCHIANG ARMY BARRACKS NW AL1 + HQ INF DIV		CH 322906N 1140050E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : - 18-B	25X1
IDHS CODE: []		EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5093-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085057
HSUCHANG MILITARY AREA 1		CH 3401 N 11349 E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []		EPF CAT : 35	COMIREX NO: []	25X1
DIA	NBRG	NDA07-5094-78 22 SEP 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085058
HSUCHANG ARMY BARRACKS AL5 + HQ INFANTRY DIV		CH 340238N 1134923E		
WAC NO : 0385		BE/OBJ NO: []	NPIC NO : - 11-C	25X1
IDHS CODE: []		EPF CAT : 35A	COMIREX NO: []	25X1

1940

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA NBRG NDA07-5095-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085059

HSUCHANG ARMY BARRACKS AL1

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 340010N 1134420E

NPIC NO : - 11-D3

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5096-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085060

HSUCHANG MILITARY AREA 2

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35

CH 3401 N 11349 E

NPIC NO : -

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5097-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085061

CHIANGKO ARMY BARRACKS AL3

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 341400N 1134610E

NPIC NO : - 36-C2

COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5098-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085062

HSIANGCHENG ARMY BARRACKS AL1

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 335119N 1132804E

NPIC NO : -

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5099-78 22 SEP 78 SEC CLASS: 05G MSN: 0001P ACCN: S085063

LOHO ARMY BARRACKS AL1

WAC NO : 0385

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

CH 333505N 1140135E

NPIC NO : - 108-A2

COMIREX NO: []

25X1
25X25X1

25X1

1941
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC MEMO 06 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S085068^{25X1}

ELECTRONICS, VHF ANTENNA ARRAYS SEARCH KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

NPIC MEMO 15 AUG 78 SEC CLASS: 13 MSN: 1P ACCN: S085069^{25X1}

LASA COMSAT FACILITY DOMESTIC SEARCH CH 293905N 0910805E
WAC NO : 0437 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

CIA IRP 1510210J-78 SEP 78 SEC CLASS: 24 MSN: 0013P ACCN: S085072^{25X1}

MISSILES, SS-12 UNITS ORGANIZATION/EQUIP/DPL UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40H COMIREX NO:

ELEVEN SS-12 (SCALEBOARD) UNITS HAVE BEEN IDENTIFIED WITHIN THE SOVIET UNION SINCE THE SS-12 -- A MOBILE SHORT-RANGE BALLISTIC MISSILE -- WAS FIRST OBSERVED IN 1967. PHOTOGRAPHIC ANALYSIS OF THESE UNITS INDICATES THAT THERE ARE SEVEN FULL-STRENGTH BRIGADES WITH 12 TRANSPORTER-ERECTOR-LAUNCHERS (TELS) EACH AND FOUR REDUCED-STRENGTH BRIGADES, SOME WITH SIX AND SOME WITH NINE TELS EACH. THE BASIC ORGANIZATION OF THE FULL-STRENGTH BRIGADES IS THREE FIRING BATTALIONS WITH FOUR TELS EACH, A TECHNICAL SUPPORT BATTALION, AND OTHER SUPPORT UNITS OF COMPANY OR PLATOON SIZE. FULL-STRENGTH BRIGADES APPEAR TO HAVE BETWEEN 215 AND 265 PIECES OF EQUIPMENT EACH. THE FULL-STRENGTH BRIGADES ARE DEPLOYED IN THE WESTERN MILITARY DISTRICTS AND ALONG THE SINO-SOVIET BORDER. THE REDUCED-STRENGTH BRIGADES ARE DEPLOYED IN THE TRANSCAUCASUS MILITARY DISTRICT AND IN MILITARY DISTRICTS IN THE INTERIOR. EACH BRIGADE APPEARS TO BE SUBORDINATE TO A MILITARY DISTRICT. NO SCALEBOARD BRIGADES HAVE BEEN IDENTIFIED ON PHOTOGRAPHY IN FIVE OF THE MILITARY DISTRICTS WITHIN THE SOVIET UNION OR WITH THE GROUPS OF FORCES IN EASTERN EUROPE. SOME SCALEBOARD TELS OR RELATED EQUIPMENT HAVE BEEN PERIODICALLY OBSERVED AT OTHER LOCATIONS WITHIN THE SOVIET UNION. HOWEVER, IT DOES NOT APPEAR THAT THESE SIGHTINGS INDICATE ADDITIONAL SCALEBOARD BRIGADES.

25X1

1942
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA BIIR RDA11-0021-77 SEP 78

SEC CLASS: 14B MSN:

0005P

ACCN: S085074

25X1

LABEDY STEEL + TANK MANUFACTURING PLANT

WAC NO : 0232

BE/OBJ NO:

PL 502140N 0183651E

NPIC NO : - 42-C

IDHS CODE:

EPF CAT : 30C

COMIREX NO:

LABEDY STEEL + TANK MANUFACTURING PLANT

PL 502140N 0183651E

WAC NO : 0232

BE/OBJ NO:

NPIC NO : - 42-C

IDHS CODE:

EPF CAT : 35G

COMIREX NO:

THIS REPORT HAS BEEN PREPARED IN ACCORDANCE WITH DIA RESPONSIBILITIES FOR THIRD-PHASE IMAGERY EXPLOITATION UNDER THE NATIONAL TASKING PLAN TO UPDATE EXISTING BASIC REPORTS. IT UPDATES DIA, RDA-11/0010/71, LABEDY TANK, STEEL, AND CONSTRUCTION MACHINE PLANT, POLAND, SEP 70 (TOP SECRET RUFF), THE BASIC REPORT FOR THIS TARGET WHICH WAS COMPILED FROM PHOTOGRAPHY ALL PERTINENT IMAGERY AVAILABLE TO THIS AGENCY ON THE REPORTING CUTOFF DATE OF 31 DECEMBER 1976 HAS BEEN UTILIZED.

25X1

25X1

1943
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THE INSTALLATION NAME OF THIS TARGET HAS BEEN CHANGED TO LABEDY STEEL AND TANK MANUFACTURING PLANT, AND THE LATITUDE IS 50 DEGREES INSTEAD OF 51 DEGREES. THIS REPORT INCLUDES TWO PHOTOGRAPHS, A TABLE AND TEXT WHICH DEPICTS THE CHANGES FROM SEPTEMBER 1969 THROUGH DECEMBER 1976.

NPIC SR SR065-78 SEP 78 SEC CLASS: 14B MSN: 0001P ACCN: S08507525X1

AIRCRAFT, HIP C MI-8 MODIFICATIONS
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 05D
 BLAGOYEVO AIRFIELD HIP C MI-8 MODIFIED IDENT.
 WAC NO : 0250 BE/OBJ NO:
 IDHS CODE: EPF CAT : 05A

UR
 NPIC NO : -
 COMIREX NO:
 UR 465337N 030415E
 NPIC NO : - 9
 COMIREX NO:

25X1

25X1

NPIC BIRK RCA09-0022-77 SEP 78 SEC CLASS: 25 MSN: 0031P ACCN: S08507525X1

KRASNOARMEYSK SOLID MOTOR DEVELOPMENT FACIL
 WAC NO : 0154 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 KAZAN MISSILE PROPULSION R+D FACILITY
 WAC NO : 0165 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 MISSILES, SOLID PROPELLANT R+D FACILITIES
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 KAZAN AIRCRAFT ENGINE PLANT 16
 WAC NO : 0165 BE/OBJ NO:
 IDHS CODE: EPF CAT : 05G
 LENINGRAD SOLID MOTOR TEST FACILITY 3
 WAC NO : 0103 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 LENINGRAD SOLID MOTOR TEST FACILITY 2
 WAC NO : 0103 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 LENINGRAD SOLID MOTOR TEST FACILITY 1
 WAC NO : 0103 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV
 WAC NO : 0153 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E
 MOSKVA SOLID MOTOR PRODUCTION PLANT LYUBERTSY
 WAC NO : 0167 BE/OBJ NO:
 IDHS CODE: EPF CAT : 40E

UR 560750N 0380954E
 NPIC NO : - 55-A
 COMIREX NO:
 UR 555345N 0485007E
 NPIC NO : - 14-X
 COMIREX NO:
 UR 555119N 0490620E
 NPIC NO : - 14-B
 COMIREX NO:
 UR 601533N 0304440E
 NPIC NO : - 42-T1
 COMIREX NO:
 UR 601250N 0304218E
 NPIC NO : - 42-T
 COMIREX NO:
 UR 600401N 0303615E
 NPIC NO : - 42-T2
 COMIREX NO:
 UR 595914N 0305935E
 NPIC NO : - 156
 COMIREX NO:
 UR 553648N 0375240E
 NPIC NO : - 46-F1
 COMIREX NO:

25X1

225X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1944

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT DESCRIBES RECENT DEVELOPMENTS AT EIGHT SOVIET SOLID PROPELLANT ROCKET MOTOR RESEARCH AND DEVELOPMENT (R+D) FACILITIES. A SUMMARY OF THE IMPORTANT POINTS FOLLOWS. AT MOSKVA SOLID MOTOR PRODUCTION PLANT LYUBERTSY, PROTOTYPE PRODUCTION OF AT LEAST ONE NEW PROBABLE MISSILE MOTOR WAS BEGUN DURING 1977. SEVERAL NEW LARGE BUILDINGS HAVE BEEN IDENTIFIED UNDER CONSTRUCTION AT PETROKREPOST EXPLOSIVES AND SOLID MOTOR PLANT MOROZOV. AT LENINGRAD SOLID MOTOR TEST FACILITY 1, A NEW TWIN-ARM LAUNCHER FOR SA-3/SA-N-1 AND SA-N-3 MISSILES WAS CONSTRUCTED IN 1976. AT LENINGRAD SOLID MOTOR TEST FACILITY 2, AN UNIDENTIFIED CRUISE MISSILE (POSSIBLY A NEW NAVAL CRUISE MISSILE OR A MODIFIED VERSION OF THE SS-N-2) HAS BEEN OBSERVED. EVIDENCE OF TEST PROGRAMS INVOLVING MODIFIED VERSIONS OF BOTH THE SS-N-2 AND THE SA-3/SA-N-1 HAS BEEN OBSERVED AT LENINGRAD SOLID MOTOR TEST FACILITY 3. INDICATIONS OF RL-07 (POSSIBLY A MODIFIED VERSION OF THE SS-N-3U CRUISE MISSILE) TESTING HAVE BEEN SEEN AT LENINGRAD TEST FACILITIES 2 AND 3. AT KAZAN AIRCRAFT ENGINE PLANT 16, A MAJOR NEW PLANT EXPANSION PROGRAM MAY HAVE BEGUN. AT KAZAN MISSILE PROPULSION R+D FACILITY, A POSSIBLE LASER TEST RANGE HAS BEEN IDENTIFIED. AND AT KRASNOARMEYSK SOLID MOTOR DEVELOPMENT FACILITY, THREE TYPES OF NAVAL MISSILE SHIPPING CRATES HAVE BEEN IDENTIFIED SINCE JULY 1976.

THIS REPORT UPDATES A PREVIOUS NPIC REPORT ON EACH OF THE EIGHT SOVIET FACILITIES. THE CURRENT REPORTING PERIOD FOR EACH FACILITY IS DEPENDENT UPON THE DATE OF THE LATEST IMAGERY USED FOR THE RESPECTIVE, UPDATED REPORT AND THE DATE OF THE MOST RECENT, USABLE IMAGERY ACQUIRED THROUGH THE INFORMATION CUTOFF DATE OF 1 MARCH 1978.

DIA	IIM	5B3-59526-78	15 SEP 78		SEC CLASS: 13	MSN:	1P	ACCN: S085077	25X1
CHOYBALSAN AIRFIELD NE FITTER SU-17 COUNT					MG	480802N 1143847E			
WAC NO : 0201					BE/OBJ NO:	NPIC NO : - 51-C			25X1
IDHS CODE:					EPF CAT : 05A	COMIREX NO:			25X1
DIA	IIM	5B1-59585-78	78 SEP 78		SEC CLASS: 14	MSN:	4P	ACCN: S085078	25X1
PROKHLADNYY AVTOKOLONNA 1438					UR	434554N 0440048E			
WAC NO : 0325					BE/OBJ NO:	NPIC NO :			25X1
IDHS CODE:					EPF CAT : 85A	COMIREX NO:			25X1
DIA	IIM	5B1-59536-78	20 SEP 78		SEC CLASS: 14B	MSN:	3P	ACCN: S085079	25X1
SKIERNIEWICE ARMY BARRACKS 4					PL	515900N 0202138E			25X1
WAC NO : 0232					BE/OBJ NO:	NPIC NO :			25X1
IDHS CODE:					EPF CAT : 35A	COMIREX NO:			
SKIERNIEWICE STORAGE FACILITY PROB POL RLTD					PL	515900N 0202100E			
WAC NO : 0232					BE/OBJ NO:	NPIC NO : - 302-A			25X1
IDHS CODE:					EPF CAT : 80A	COMIREX NO:			25X1

25X1

25X1

1945
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-59525-78 18 SEP 78 SEC CLASS: 14B MSN: 3P ACCN: S08508125X1
KIROVAKAN MILITARY INSTL U/I RADIO RELAY UNIT UR 404740N 0443112E
WAC NO : 0325 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35A COMIREX NO:

DIA IIM 5B3-59527-78 15 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08508225X1
NYANGI AIRFIELD FITTER SU-17 COUNT UR 504034N 1060833E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 58
IDHS CODE: EPF CAT : 05A COMIREX NO:

DIA IIM 5B3-59524-78 18 SEP 78 SEC CLASS: 13 MSN: 3P ACCN: S08508325X1
IZYUM AIRFIELD POL STORAGE CAPACITY UR 491550N 0370913E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 11
IDHS CODE: EPF CAT : 05I COMIREX NO:

DIA IIM 5B3-59523-78 15 SEP 78 SEC CLASS: 13 MSN: 1P ACCN: S08508425X1
POVORINO AIRFIELD UR 511015N 0421400E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 33
IDHS CODE: EPF CAT : 05A COMIREX NO:

DIA IIM 5B1-59506-78 19 SEP 78 SEC CLASS: 14B MSN: 3P ACCN: S08508525X1
STEPANAVAN ARMY BARRACKS AL3 UR 405735N 0442520E
WAC NO : 0325 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

NPIC MEMO 25 SEP 78 SEC CLASS: 14B MSN: 3P ACCN: S08508725X1

1946
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

KOTLUBAN RADIO RELAY STATION

WAC NO : 0235

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 485700N 0441345E

NPIC NO : - 16-01

COMIREX NO:

NOVYY KOGACHIK RADIO RELAY STATION

WAC NO : 0235

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 484025N 0440332E

NPIC NO : - 16-V2

COMIREX NO:

KALACH NA DONU RADIO RELAY STATION

WAC NO : 0235

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 484040N 0432910E

NPIC NO : - 75-A

COMIREX NO:

NIZHNE CHRISKAYA RADIO RELAY

WAC NO : 0235

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 482040N 0430350E

NPIC NO : - 81

COMIREX NO:

MORSKOY RADIO RELAY STATION

WAC NO : 0234

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 480507N 0423550E

NPIC NO : - 145

COMIREX NO:

MELEKHUVSKAYA RADIO RELAY STATION

WAC NO : 0249

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 473120N 0403450E

NPIC NO : - 94

COMIREX NO:

MARIINSKAYA RADIO RELAY STATION

WAC NO : 0249

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 473800N 0414320E

NPIC NO : - 77-A

COMIREX NO:

KONSTANTINOVSKIY RADIO RELAY STATION

WAC NO : 0249

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 474227N 0410825E

NPIC NO : - 135

COMIREX NO:

THIS MEMO DESCRIBES THE TYPES AND ORIENTATION AND CURRENT STATUS OF RADIO-RELAY ANTENNAS IN THE VOLGOGRAD - KOSTOV AREA. IMAGERY USED DATED APRIL 1977 TO PRESENT.*

DIA BIIR RDA11-0008-77

SEP 78

SEC CLASS: 14D

MSN: []

0011P

ACCN: 5085089

PAOTOU ARMORED VEHICLE PLANT 617

WAC NO : 0288

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 356

CH 404006N 1095423E

NPIC NO : - 13-6

COMIREX NO: []

1947
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF PAO-TOU ARMORED VEHICLE PLANT 617 AND TEST FACILITIES, LOCATED IN NORTHEAST PING-FENG-SHE-CHENG, NORTH-CENTRAL PEOPLE'S REPUBLIC OF CHINA (PRC). THE PLANT IS ROAD AND RAIL SERVED; THE TEST AREA IS ROAD SERVED. THE FACILITIES COVER APPROXIMATELY 722 HECTARES (PLANT 168 HECTARES, TEST AREA 554 HECTARES). THE PLANT HAS 334 BUILDINGS (379,545 SQUARE METERS OF ROOF COVER); THE TEST AREA HAS 25 BUILDINGS (7,018 SQUARE METERS OF ROOF COVER). OF THE BUILDINGS IN THE PLANT AREA, 15 ARE MAJOR PRODUCTION (216,654 SQUARE METERS OF ROOF COVER) AND THE REST ARE DIRECT SUPPORT, STORAGE, ADMINISTRATION, AND MISCELLANEOUS SUPPORT. FOR THE PURPOSE OF THIS REPORT, THE PLANT AREA IS DIVIDED INTO 11 FUNCTIONAL AREAS: RECEIVING AND STORAGE; GAS, HEAT, AND POWER; FABRICATION/MACHINE SHOP; WOOD PRODUCTS; SHIPPING AND STORAGE; FOUNDRY AND SUBASSEMBLY; FINAL ASSEMBLY AND CHECKOUT; PRESIPPING TESTING; VEHICLE MAINTENANCE AND REPAIR; PRODUCTION SUPPORT AND STORAGE; AND ADMINISTRATION/TRAINING/HOUSING. THE TEST AREA IS FUNCTIONALLY DIVIDED INTO FOUR AREAS: CROSS-COUNTRY VEHICLE TEST, BALLISTIC TEST FACILITY, OVAL TEST TRACK, AND ENGINEERING SUPPORT FACILITY. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, FOUR ANNOTATED PHOTOGRAPHS, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

25X1

1948
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA NBRG NDA06-5137-77 26 SEP 78 SEC CLASS: 04 MSN: 0001P ACGN: S085097

HAIKOU NAVAL BASE
WAC NO : 0615

BE/OBJ NO:

CH : 200130N 1101630E
NPIC NO : - 6-C

25X1

1950
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []

EPF CAT : 75B

COMIREX NO: []

25X1

DIA NBRG NDA06-5138-77 26 SEP 78

SEC CLASS: 04

MSN:

0001P

ACCH: S08509A

WUHU SHIPYARD

WAC NO : 0493

BE/OBJ NO: []

CH 312102N 1182105E

IDHS CODE: []

EPF CAT : 75E

COMIREX NO: []

NPIC NO : - 40-A2

25X1
25X1

25X1

1951
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC B11R RCA09-0027-78 SEP 78 SEC CLASS: 25D MSN: 0005P ACCN: 508510425X1

IZHEVSK ROCKET ENGINE TEST FACILITY
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3-H1
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

25X1

25X1

THIS REPORT DESCRIBES DEVELOPMENTS AT IZHEVSK ROCKET ENGINE TEST FACILITY
MODIFICATIONS AND ADDITIONS TO THE FACILITY INDICATE THAT AT
LEAST ONE NEW ROCKET ENGINE TEST PROGRAM AND ONE NEW ROCKET MOTOR TEST PROGRAM WERE INSTITUTED THERE
DURING THE REPORTING PERIOD. THIS REPORT UPDATES NPIC REPORT
A LOCATION MAP, FOUR ANNOTATED PHOTOGRAPHS, AND A TABLE ARE INCLUDED IN THIS REPORT.

25X1

25X1

1952
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 35E COMIREX NO:

A NEW-TYPE SELF-PROPELLED (SP) ANTI-AIRCRAFT (AA) GUN WAS OBSERVED AT THE SINHUNG ARMORED VEHICLE
ASSEMBLY/REPAIR PLANT PUG ON [REDACTED] THE SP AA GUN CONSISTS OF A PROBABLE ZPU-4 AA
GUN MOUNTED ON THE M-1973 ARMORED PERSONNEL CARRIER.*

25X1

DIA IIM 5B1-59606-78 20 SEP 78 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 3P

ACCN: S08513925X1

ORDZHONIKIDZE AVTOKOLONNA 1210

UR 430300N 0444040E

WAC NO : 0325

BE/OBJ NO: [REDACTED]

NPIC NO :

IDHS CODE: [REDACTED]

EPF CAT : 85A

COMIREX NO:

25X1
25X1

DIA IIM 5B1-59607-78 28 SEP 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 6P

ACCN: S08513925X1

KURA RIVER CROSSING EXERCISE

UR 412448N 0465630E

WAC NO : 0325

BE/OBJ NO: [REDACTED]

NPIC NO :

IDHS CODE: [REDACTED]

EPF CAT : 35B

COMIREX NO:

[REDACTED] ELEMENTS OF A PROBABLE MRR (POSSIBLY THE MRR LOCATED AT KIROVABAD ARMY BKS SE
AL-1) WERE OBSERVED UNDERGOING FIELD TRAINING NEAR THE KURA RIVER. EQUIPMENT SIGHTED INDICATED THAT
ELEMENTS OF A TANK BATTALION, TWO MOTORIZED RIFLE BATTALIONS, A PROBABLE CHEMICAL DEFENSE COMPANY, A
HOWITZER BATTERY, AND A PROBABLE MOTOR TRANSPORT COMPANY WERE INVOLVED IN THE EXERCISE. ADDITIONALLY TWO
PROBABLE PONTON BRIDGE UNITS AND A POSSIBLE HEAVY MOTOR TRANSPORT UNIT, NEITHER OF WHICH ARE ORGANIC TO A
MOTORIZED RIFLE REGIMENT, WERE PARTICIPATING IN THE EXERCISE. A BIVOUAC SITE WITH A SMALL MOTOR PARK AND A
PROBABLE REGIMENTAL TACTICAL OPERATIONS CENTER (TOC) WERE ALSO PRESENT IN THE IMMEDIATE AREA.

25X1

DIA NBRG NDA06-5120-77 26 SEP 78

SEC CLASS: 05G MSN: 0001P

ACCN: S085141

CHINGSHAN NAVAL FACILITY PUG

CH 360914N 1204114E

WAC NO : 0381

BE/OBJ NO: [REDACTED]

NPIC NO : - 139-D

IDHS CODE: [REDACTED]

EPF CAT : 75B

COMIREX NO: [REDACTED]

25X1
25X1

DIA NBRG NDA06-5121-77 26 SEP 78

SEC CLASS: 05G MSN: 0001P

ACCN: S085142

SHANTOU NAVAL BASE

CH 232123N 1164058E

WAC NO : 0614

BE/OBJ NO: [REDACTED]

NPIC NO : - 17-T

IDHS CODE: [REDACTED]

EPF CAT : 75B

COMIREX NO: [REDACTED]

25X1
25X11960
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA NBRG NDA06-5122-77 26 SEP 78

SEC CLASS: 056 MSN:

0001P

ACCN: S085143

WEIHAI NAVAL FACILITY NORTH PUG

WAC NO : 0381

BE/OBJ NO:

CH 373330N 1220653E

NPIC NO : - 171

IDHS CODE:

EPF CAT : 75B

COMIREX NO:

25X1

25X1

DIA IIM 5B1-59744-78 04 OCT 78

SEC CLASS: 14B MSN:

1P

ACCN: S085148

TIRGU CARBUNESTI MILITARY BARRACKS IDFNT

WAC NO : 0251

BE/OBJ NO:

RO 445827N 0233019E

NPIC NO :

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

25X1

25X1

DIA IIM 5B3-59709-78 29 SEP 78

SEC CLASS: 13 MSN:

1P

ACCN: S085153

CHOYBALSAN AIRFIELD NE AIRCRAFT BUNKERS

WAC NO : 0201

BE/OBJ NO:

MG 480802N 1143847E

NPIC NO : - 51-C

IDHS CODE:

EPF CAT : 05A

COMIREX NO:

25X1

25X1

1961

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM SB3-59720-78 04 OCT 78 [] SEC CLASS: 13 MSN [] 1P ACCN: S085154 25X1

MOSKVA ELEMENT ORGANIC COMPOUNDS INSTITUTE UR 554205N 0373430E

WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1

IDHS CODE: [] EPF CAT : 65A COMIREX NO: 25X1

DIA IIM SB3-59735-78 04 OCT 78 [] SEC CLASS: 13 MSN: 1P ACCN: S085155 25X1

SAYNSHAND AIRFIELD NE AIRCRAFT BUNKERS MG 445910N 1101030E

WAC NO : 0285 BE/OBJ NO: [] NPIC NO : - 19 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM SB3-59736-78 04 OCT 78 [] SEC CLASS: 13 MSN: 1P ACCN: S085156 25X1

NALAYH AIRFIELD AIRCRAFT BUNKERS MG 474421N 1072224E

WAC NO : 0285 BE/OBJ NO: [] NPIC NO : - 7-B 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM SB3-59738-78 04 OCT 78 [] SEC CLASS: 13 MSN: 1P ACCN: S085157 25X1

DOLINSK/SOKOL AIRFIELD AIRCRAFT BUNKERS UR 471536N 1424617E

WAC NO : 0281 BE/OBJ NO: [] NPIC NO : - 27-B 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM SB3-59755-78 06 OCT 78 [] SEC CLASS: 13 MSN: 1P ACCN: S085158 25X1

KHABAROVSK/BLAGODATNOYE AIRFIELD A/C BUNKERS UR 482436N 1352500E

WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 7-S 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM SB3-59794-78 06 OCT 78 [] SEC CLASS: 13 MSN: 1P ACCN: S085159 25X1

SPASSK DALNIY AIRFIELD EAST AIRCRAFT BUNKERS UR 443643N 1325302E

WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 47 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

NPIC IIR IIR080-78 05 OCT 78 SEC CLASS: 05G MSN: 0002P ACCN: S085160

TANCHOU SSM SITE POSS MISSILE SERVICE TWR U/C CH 252600N 1092730E

WAC NO : 0497 BE/OBJ NO: [] NPIC NO : - 120 25X1

IDHS CODE: [] EPF CAT : 40 COMIREX NO: [] 25X1

A MISSILE SERVICE TOWER APPROXIMATELY 30 METERS HIGH WAS IDENTIFIED UNDER CONSTRUCTION AT THE TAN-CHOU

1962
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1.1

PROBABLE STORAGE FACILITY IN THE PEOPLE'S REPUBLIC OF CHINA (PRC) ON [REDACTED] THE TOWER IS SIMILAR IN OVERALL SIZE AND SHAPE TO THE SERVICE TOWER THAT WAS DISMANTLED AT THE I-TU SSM TRAINING POSITION [REDACTED] IN DECEMBER 1977. THE SERVICE TOWER AT TAN-CHOU IS CONSIDERABLY DIFFERENT IN SHAPE FROM THE ONE AT CHIU-MENG-CHIN SSM TECHNICAL TRAINING FACILITY [REDACTED]

25X1

25X1

25X1

25X1

NPIC BIIR RCA09-0028-78

OCT 78

SEC CLASS: 25D MSN: [REDACTED]

0012P

ACCN: S085162

25X1

KRAMATORSK MACHINE BLDG PLANT ICBM CMPNT PROD	UR	484503N 0373416E
WAC NO : 0234	BE/OBJ NO: [REDACTED]	NPIC NO : - 65-B
IDHS CODE: [REDACTED]	EPF CAT : 30C	COMIREX NO: [REDACTED]
KRAMATORSK MACHINE BLDG PLANT ICBM CMPNT PROD	UR	484503N 0373416E
WAC NO : 0234	BE/OBJ NO: [REDACTED]	NPIC NO : - 65-B
IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO: [REDACTED]
YURGA ARMAMENT PLANT 75 ICBM SILO CMPNT PROD	UR	554410N 0845445E
WAC NO : 0161	BE/OBJ NO: [REDACTED]	NPIC NO : - 17-A
IDHS CODE: [REDACTED]	EPF CAT : 35G	COMIREX NO: [REDACTED]
YURGA ARMAMENT PLANT 75 ICBM SILO CMPNT PROD	UR	554410N 0845445E
WAC NO : 0161	BE/OBJ NO: [REDACTED]	NPIC NO : - 17-A
IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO: [REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT UPDATES NPIC REPORT [REDACTED] ON YURGA ARMAMENT PLANT 75 AND PROVIDES INFORMATION CURRENT THROUGH 15 JUNE 1978, THE INFORMATION ON CUTOFF DATE FOR THIS REPORT. IT IS THE FIRST BASIC IMAGERY INTERPRETATION REPORT ON KRAMATORSK MACHINE BUILDING PLANT NOVO KRAMATORSK, FOR WHICH THE REPORTING PERIOD IS 15 AUGUST 1966 THROUGH 15 JUNE 1978, THE DATE OF THE THE LATEST USABLE IMAGERY [REDACTED]

25X1

BOTH OF THESE PLANTS HAVE BEEN IDENTIFIED AS PRODUCTION FACILITIES FOR SOVIET ICBM SILO COMPONENTS. THE YURGA PLANT IS ASSOCIATED WITH THE TYPE IIIF (SS-18) SILO LAUNCHER AND THE TYPE IIIX LAUNCH CONTROL FACILITY (LCF) SILO. THE KRAMATORSK PLANT HAS BEEN IDENTIFIED AS A PRODUCTION PLANT FOR TYPE IIIG (SS-19)

25X1

1963
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

SILO LAUNCHER AND TYPE IIIX LCF SILO COMPONENTS. IT MAY ALSO BE INVOLVED IN TRANSPORTER-ERECTOR-LAUNCHER (TEL)/RESUPPLY VEHICLE ASSEMBLY FOR THE SS-16/-20 MOBILE ICBM/IRBM MISSILE SYSTEMS, ALTHOUGH THE IMAGERY-DERIVED EVIDENCE AT THIS TIME IS INCONCLUSIVE.

THIS REPORT INCLUDES A LOCATION MAP, SEVEN PHOTOGRAPHS, AND THREE TABLES OF MEASURAL/CHRONOLOGICAL INFORMATION.

NPIC B1IR RCA15-0002-78 SEP 78 SEC CLASS: 14B MSN: 0022P

ACCN: S085163 25X1

KAPUSTIN YAR MTC

WAC NO : 0235

IDHS CODE:

BE/OBJ NO

EPF CAT : 40E

UR 484107N 0455853E

NPIC NO : 10

COMIREX NO:

25X1

25X1

MOST OF THE ACTIVITY OBSERVED AT THE KAPUSTIN YAR MISSILE SPACE TEST CENTER SSM WAS RELATED TO THE SS-16/20 MOBILE MISSILE PROGRAM. THE OBSERVATIONS INCLUDED IDENTIFICATION OF A RECOGNITION SIGNATURE FOR AN IMPENDING SS-20 LAUNCH; CONSTRUCTION OF A NEW POSSIBLE SS-20 COMMAND AND CONTROL TRAINING SILO; AND IDENTIFICATION OF THREE NEW SS-20 CREW-TRAINING SUPPORT FACILITIES. CONSTRUCTION ALSO OCCURRED AT THREE MIDRANGE TRACKING FACILITIES.

25X1

25X1

THIS REPORT IS BASED ON ALL PERTINENT KEYHOLE IMAGERY AND UPDATES A PREVIOUS NPIC REPORT, DATED NOVEMBER 1976. IT CONTAINS LOCATION MAPS OF VARIOUS WEAPON, SPACE, SUPPORT, AND TRACKING FACILITIES.

25X1

25X1

1964

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIB BDA11-0003-77 SEP 78 SEC CLASS: 14D MSN: 0004P ACCN: S085166 25X1

HSIAN ROCKET LAUNCHER + A/C CANNON PLANT 847 CH 341700N 1090051E
 WAC NO : 0385 BE/OBJ NO: NPIC NO : - 21-61
 IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1

25X1

CIA IRP 1S10171K-78 SEP 78 SEC CLASS: 14 Y MSN: 0011P ACCN: S085167 25X1

ANGANG BALL POWDER PLANT KS 3559 N 12911 E
 WAC NO : 0387 BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 ANGANG AMMUNITION LOADING PLANT KS 355911N 1291129E
 WAC NO : 0387 BE/OBJ NO: NPIC NO : - 7
 IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1

25X1

25X1

SOUTH KOREA'S FIRST INTEGRATED AMMUNITION AND LOADING COMPLEX, LOCATED NEAR THE VILLAGE OF AN'GANG, IS UNDERGOING MAJOR EXPANSION. WHEN THIS EXPANSION IS COMPLETE THE COMPLEX WILL PRIMARILY CONSIST OF TWO PLANTS--AN AMMUNITION LOADING PLANT AND A DOUBLE-BASE PROPELLANTS (BALL POWDER) PLANT. THIS NEW COMPLEX, OWNED BY THE POONGSAN METALS MANUFACTURING COMPANY LIMITED, WILL EMPHASIZE THE PRODUCTION OF SMALL- AND MEDIUM-CALIBER AMMUNITION FOR THE SOUTH KOREAN MILITARY.

CONSTRUCTION AT AN'GANG MOST LIKELY BEGAN IN THE EARLY 1970S. IN JANUARY 1974, THE AMMUNITION LOADING PLANT APPEARED TO HAVE JUST RECENTLY BEEN COMPLETED AND, ACCORDING TO HUMINT, IT WENT INTO PRODUCTION IN 1975. CONSTRUCTION OF THE BALL POWDER PLANT, REPORTEDLY BEING BUILT BY A U.S. FIRM, BEGAN SOMETIME AFTER FEBRUARY 1976. IT APPEARED TO BE IN A LATE STAGE OF CONSTRUCTION WHEN LAST SEEN IN OCTOBER 1977. A MAJOR AREA OF NEW CONSTRUCTION ALSO BEGUN AFTER FEBRUARY 1976 NEXT TO THE AMMUNITION LOADING PLANT WILL PROBABLY ALSO SERVE TO LOAD AMMUNITION.

NPIC IIR 1IR076-78 29 SEP 78 SEC CLASS: 05C MSN: 0002P ACCN: S085168

SHIMANOVSK AIRFIELD HIND + HIP C IDENT UR 515910N 1273840E
 WAC NO : 0203 BE/OBJ NO: NPIC NO : - 25
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

25X1

NPIC IIR 1IR074-78 26 SEP 78 SEC CLASS: 054 MSN: 0002P ACCN: S085169

1965
 TOP SECRET CHESS RUFF

25X1
 25X1



TOP SECRET CHESS RUFF



25X1
25X1

TONLE SAP AIRFIELD NEW U/C

WAC NO : 0738

IDHS CODE:



BE/OBJ NO:

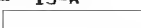


EPF CAT : 05A

CR 121515N 1043410E

NPIC NO : - 15-A

COMIREX NO:



25X1
25X1
25X1

25X1



()

()

1966
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC IIR IIR078-78 04 OCT 78

SEC CLASS: 14B MSN: 0002P

ACCN: S085172

25X1

SHIPS, KARA CLASS CG MODIFICATIONS
WAC NO :

BE/OBJ NO:

UR
NPIC NO : -

1967
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 75D COMIREX NO:
NIKOLAYEV SHIPYARD NORTHERN 61 KARA CG MODIF UR 465840N 0320019E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 46-C
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

25X1

CIA INFR IS10225-78 18 SEP 78

SEC CLASS: 05 Y MSN:

0007P

ACCN: S085174

MILITARY, ZIMBABWE ACTIVITY SEARCH

WAC NO : 1056 BE/OBJ NO:
IDHS CODE: EPF CAT : 35
LOVUA MILITARY TRAINING ACTIVITY SEARCH
WAC NO : 1056 BE/OBJ NO:
IDHS CODE: EPF CAT : 35H
JIMBE MILITARY TRANSIT FACILITY
WAC NO : 1056 BE/OBJ NO:
IDHS CODE: EPF CAT : 35A
NANA CANDUNDO MILITARY CAMP
WAC NO : 1056 BE/OBJ NO:
IDHS CODE: EPF CAT : 35A
CHIMBILA MILITARY CAMP
WAC NO : 1056 BE/OBJ NO:
IDHS CODE: EPF CAT : 35A

AO
NPIC NO : -
COMIREX NO:
AO 113600S 0235300E
NPIC NO : -
COMIREX NO:
AO 110550S 0240030E
NPIC NO : -
COMIREX NO:
AO 113045S 0230100E
NPIC NO : -
COMIREX NO:
AO 111100S 0201230E
NPIC NO : -
COMIREX NO:

25X1

25X1

25X1

25X1

NO PHOTOGRAPHIC SIGNATURES COULD CONFIRM THE PRESENCE OF ZAPU TROOPS IN ANGOLA. HOWEVER, MILITARY
CAMPS HAVE BEEN IDENTIFIED AT CHIMBILA AND NANA CANDUNDO AND A TRANSIT FACILITY NEAR JIMBE. NO EVIDENCE OF
A MILITARY TRAINING CAMP WAS SEEN NEAR LOVUA.*

CIA INFR IS10224-78 15 SEP 78

SEC CLASS: 05 MSN:

0004P

ACCN: S085175

MISSILES, SS-N-14 TORPEDO PAYLOAD
WAC NO : BE/OBJ NO:

UR
NPIC NO : -

25X1

1968
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: EPF CAT : 406 COMIREX NO:

THIS MEMORANDUM PRESENTS A DIMENSIONAL AND FUNCTIONAL ANALYSIS OF THE HOMING TORPEDO BELIEVED TO BE DELIVERED BY THE SS-N-14 MISSILE--AN ANTISUBMARINE WARFARE WEAPON DEPLOYED ON KARA AND KRESTA-II-CLASS GUIDED-MISSILE CRUISERS AND KRIVAK-CLASS GUIDED-MISSILE FRIGATES. THE TORPEDO ANALYZED WAS PHOTOGRAPHED BY THE WEST GERMANS BOTH IN THE WATER AND ABOARD A TORPEDO RETRIEVER FOLLOWING AN SS-N-14 FIRING BY THE KRIVAK-CLASS GUIDED-MISSILE FRIGATE BODRY. THE FIRING TOOK PLACE ON 1 FEBRUARY 1978 IN THE GULF OF DANZIG.

CIA INFR IS10207K-78 SEP 78 SEC CLASS: 13 MSN: 0014P ACCN: S085176 25X1

MISSILES, SSM SITES TUNNELS RAIL-SERVED POSS CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:

TEN OF CHINA'S 40 PERMANENT MEDIUM- AND INTERMEDIATE-RANGE BALLISTIC MISSILE (MRBM AND IRBM) SITES AND TWO POTENTIAL INTERCONTINENTAL-RANGE BALLISTIC MISSILE (ICBM) SITES HAVE POSSIBLE DRIVE-THROUGH TUNNELS WITH RAIL-SERVED ENTRANCES. OIA HAS STUDIED THESE RAILS AND BELIEVES THAT THEY ARE PRIMARILY FOR USE IN THE HANDLING OF MISSILE AIRFRAMES INTO AND OUT OF BELOW-GROUND STORAGE AREAS. THE RAILS DO NOT APPEAR TO BE FOR HANDLING WARHEADS, ALTHOUGH THAT POSSIBILITY CANNOT BE COMPLETELY RULED OUT.

CIA INFR IS10220K-78 12 SEP 78 SEC CLASS: 14 MSN: 0003P ACCN: S085177 25X1

NANAO TAO MISSILE RELATED FACILITY SEARCH CH 232620N 1170035E
 WAC NO : 0614 BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:
 PEIAN MISSILE RELATED FACILITY SEARCH CH 483650N 1271830E
 WAC NO : 0203 BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:
 SHIHHSING MISSILE RELATED FACILITY SEARCH CH 2450 N 11413 E
 WAC NO : 0614 BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:

SURFACE-TO-SURFACE MISSILE (SSM) AND SURFACE-TO-AIR (SAM) SITES WERE LOCATED IN THE VICINITY OF SHIH-HSING IN KWANTUNG PROVINCE, THAT THE 419TH SUBDIVISION OF THE NATIONAL DEFENSE SCIENTIFIC AND TECHNOLOGICAL COMMISSION (NDSTC) WAS IN THE VICINITY OF PEI-AN IN HEILUNGKIANG PROVINCE, AND THAT A SAM SITE WAS LOCATED AT NAN-AO ISLAND IN KWANTUNG PROVINCE. OIA SEARCHED ALL OF THESE AREAS AND FOUND NO EVIDENCE OF ANY OF THE FACILITIES REPORTED.

CIA INFR IS10226K-78 14 SEP 78 SEC CLASS: 14 Y MSN: 0002P ACCN: S085178 25X1

TRANSPORTATION, BENGUELA RAILROAD STATUS AO
 WAC NO : BE/OBJ NO: NPIC NO : -

1969
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 85B COMIREX NO:

ALMOST 95 PERCENT OF THE BENGUELA RAILROAD IN ANGOLA WAS IMAGED ON SATELLITE PHOTOGRAPHY DURING MAY AND JUNE 1978. A REVIEW OF THIS PHOTOGRAPHY SHOWS THAT THE LINE APPEARS TO BE OPERATIONAL ALONG ITS ENTIRE LENGTH AND TRAINS HAVE BEEN OBSERVED IN OPERATION. UNITA GUERRILLAS CLAIMED TO HAVE DESTROYED PARTS OF THE LINE, INCLUDING A RAIL BRIDGE OVER THE CUIVA RIVER, IN JULY OR AUGUST; HOWEVER, COVERAGE IN EARLY SEPTEMBER OF THE TWO BRIDGES THAT CROSS THE CUIVA, SHOWS THEM TO BE OPERATIONAL.

CIA INFR IS10238K-78 04 OCT 78 SEC CLASS: 13 MSN: 0002P

ACCN: S085179

MISSILES, SS-16/20 EQUIP REAR SUPT DPOS SRCH UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40A COMIREX NO:
 MISSILES, SS-16/20 EQUIP REAR SUPT DPOS SRCH UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40B COMIREX NO:

OF SOVIET MISSILE REAR SUPPORT
 DEPOTS WAS ANALYZED IN AN EFFORT TO DETERMINE IF ANY SS-X-16/SS-20 MOBILE MISSILE EQUIPMENT WAS PRESENT. THE FOLLOWING DEPOTS WERE ANALYZED: ALKINO, BALTA, BERDICHEV, BOBROVSKIY, GLAZOV, NOVAYA MEZINOVKA, SUROVATIKHA, TAMBOV AND TORPETS. NO CONFIRMED NOR SUSPECT SS-X-16/SS-20 MISSILES, MISSILE CANISTERS OR GROUND SUPPORT EQUIPMENT WAS FOUND.

CIA INFR IS10235K-78 02 OCT 78 SEC CLASS: 13 MSN: 0005P

ACCN: S085180

ELECTRONICS, WASHER ANTENNA CONST SS-11 CPLXS UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25C COMIREX NO:

WASHER ANTENNAS HAVE BEEN IDENTIFIED AT ALL SIX OF THE MODERNIZED SS-11 ICBM LAUNCH COMPLEXES. THIS MEMORANDUM DISCUSSES THE ANTENNAS AT THREE OF THESE COMPLEXES-- GLADKAYA, PERM AND TEYKOVO. THE WASHER ANTENNAS AT THE OTHER THREE MODERNIZED SS-11 COMPLEXES-- DROVYANAYA, OLOVYANNAYA AND SVOBODNY-- WERE THE SUBJECT OF A PREVIOUS OIA MEMORANDUM, IS 78-10039K.

CIA INFR IS10218K-78 11 SEP 78 SEC CLASS: 13 MSN: 0023P

ACCN: S085181

MISSILES, ACTIVITY SUMMARY SALT RELATED UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS MEMORANDUM REPORTS STRATEGIC MISSILE ACTIVITY OBSERVED IN THE USSR DURING THE PERIODS 31 MAY - 22 JULY 1978.

1970
TOP SECRET CHESS RUFF25X1
25X1

25X1

TOP SECRET CHESS RUFF

25X1

ORDER TO INCLUDE INFORMATION THAT DIRECTLY AFFECTS THE ANALYSIS OF [REDACTED] IN THESE INSTANCES, THE DATES ARE INDICATED IN THE APPROPRIATE SECTIONS. BEGINNING WITH THIS EDITION, THE SUMMARY OF SALT-RELATED ACTIVITIES (MISSILES) WILL INCLUDE INFORMATION PERTAINING TO SA-X-10 TRAINING AND DEPLOYMENT. THIS INFORMATION PERTAINING TO DEVELOPMENT OF THE SYSTEM AT THE SARY SHAGAN MISSILE TEST WILL CONTINUE TO BE PRESENTED IN SECTION III.

25X1

CIA INFR IS10229K-78 21 SEP 78 [REDACTED] SEC CLASS: 13 MSN: 0006P ACCN: S085182 25X1

MILITARY, BTR-50 APC CHINESE VERSION DEPLOYED CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35E COMIREX NO:

THE CHINESE VERSION OF THE SOVIET-DESIGNED BTR-50 ARMORED PERSONNEL CARRIER IS NOT IN WIDESPREAD USE IN EASTERN OR SOUTHERN CHINA. IT WAS SEEN AT ONLY TWO OF THE 28 INSTALLATIONS KNOWN TO CONTAIN ARMORED VEHICLES IN THE FIVE SOUTHERN AND EASTERN MILITARY REGIONS. THE VEHICLE WAS ALSO SEEN AT A MILITARY TRAINING SCHOOL IN THE PEKING MILITARY REGION. IT WAS NOT SEEN AT FOUR GROUND FORCES HEADQUARTERS FACILITIES IN THE NANKING MILITARY REGION. NEITHER WAS IT IDENTIFIED AT ANY OF THE KNOWN CHINESE ARMORED VEHICLE PRODUCTION FACILITIES.

CIA INFR IS10213K-78 06 SEP 78 [REDACTED] SEC CLASS: 13 MSN: 0018P ACCN: S085183 25X1

NAVAL, PORT FACILITIES COMMERCIAL IMPROVEMENT KN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 75I COMIREX NO:
TRANSPORTATION, HIGHWAY CONSTRUCTION KN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 85A COMIREX NO:
INDUSTRY, OIL EXPLORATION OFFSHORE KN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30A COMIREX NO:
TRANSPORTATION, RAIL SYSTEM IMPROVEMENT KN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 85B COMIREX NO:

THIS STUDY FOCUSES ON DEVELOPMENT OF THE STANDARD GAUGE RAIL NETWORK, SIGNIFICANT HIGHWAY CONSTRUCTION, STATUS OF COMMERCIAL PORTS, AND EVIDENCE OF OIL EXPLORATION ACTIVITY. THE INFORMATION PRESENTED PROVIDES AN UPDATE OF PREVIOUS MEMORANDA CONCERNING THE NORTH-KOREAN TRANSPORTATION SYSTEM. THE ANALYSIS IS BASED ON MARCH 1977 THROUGH MAY 1978 PHOTOGRAPHY, WITH EARLIER PHOTOGRAPHY INCLUDED FOR BACKGROUND PURPOSES. DURING THIS PERIOD 100 PERCENT OF NORTH KOREA WAS SEEN ON FAIR-TO-GOOD QUALITY IMAGERY. PHOTOGRAPHS OF SELECTED ACTIVITY ARE INCLUDED; THE PHOTOGRAPHS WERE SELECTED ON THE BASIS OF CLARITY RATHER THAN THE MOST RECENT COVERAGE.

CIA INFR IS10206K-78 21 AUG 78 [REDACTED] SEC CLASS: 13 MSN: 0018P ACCN: S085184 25X1

1971
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESSE RUFF

25X1

TAKU SHIPYARD HSINCHIANG RECONSTRUCTION		CH 385934N 1174300E
WAC NO : 0381	BE/OBJ NO:	NPIC NO : - 62-6
IDHS CODE:	EPF CAT : 75E	COMIREX NO:
TIENTSIN EARTHQUAKE DAMAGE RECONSTRUCTION		CH 3909 N 11711 E
WAC NO : 0381	BE/OBJ NO:	NPIC NO : - 65
IDHS CODE:	EPF CAT : 10D	COMIREX NO:
TANGSHAN EARTHQUAKE DAMAGE RECONSTRUCTION		CH 393708N 1181146E
WAC NO : 0381	BE/OBJ NO:	NPIC NO : - 65
IDHS CODE:	EPF CAT : 10D	COMIREX NO:

25X1
25X1

25X1

25X1
25X1

PHOTOGRAPHY OF THE TANG-SHAN AND TIENTSIN AREAS IN APRIL 1978 SHOWS THAT MUCH OF THE DAMAGE INCURRED BY THE 28 JULY 1976 EARTHQUAKE HAS BEEN REPAIRED, AND THE CITIES APPEAR TO BE RETURNING TO NORMAL. IN TANG-SHAN, A CONCERTED EFFORT IS UNDERWAY TO SYSTEMATICALLY CLEAN UP THE PILES OF DEBRIS AND RUBBLE STILL IN EVIDENCE. MOST OF THE INDUSTRIES HAVE BEEN RESTORED TO AT LEAST PARTIAL OPERATION, AND RECONSTRUCTION OF HOUSING HAS PROGRESSED SIGNIFICANTLY THOROUGHOUT TANG-SHAN. THE TRANSPORTATION SYSTEM IN THE TANG-SHAN AREA, WHICH WAS RESTORED QUICKLY AFTER THE EARTHQUAKE, IS BEING IMPROVED. SEVERAL NEW BRIDGES HAVE BEEN CONSTRUCTED AND SEVERAL OTHERS WHICH WERE APPARENTLY DAMAGED ARE BEING REBUILT. RECONSTRUCTION OF HOUSING IN RURAL VILLAGES IS ALSO UNDERWAY, BUT NOT AT THE SAME MAGNITUDE AS IN THE CITY. IN TIENTSIN, CONSTRUCTION OF MULTISTORY APARTMENT BUILDINGS TO REPLACE HOUSING DAMAGED BY THE EARTHQUAKE IS CONTINUING.

AT THE PORT OF HSIN-KANG, RECONSTRUCTION OF THE PORT FACILITIES APPEARS ESSENTIALLY COMPLETE. TAKU SHIPYARD HAS BEEN RESTORED TO ITS PRE-QUAKE STATUS AND A PROBABLE GRAVING DOCK IS UNDER CONSTRUCTION IN THE PREVIOUSLY REPORTED KEYHOLE-SHAPED BASIN ON THE SOUTH SIDE OF THE HARBOR.

THE INFORMATION IN THIS MEMORANDUM WAS DERIVED FROM VARIOUS PHOTOGRAPHIC COVERAGES SINCE JULY 1976; THE LATEST IMAGERY USED PHOTOS SHOWING SELECTED RECONSTRUCTION EFFORTS ARE INCLUDED.

25X1
25X1

1972

TOP SECRET CHESSE RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR IS10217K-78 01 SEP 78 SEC CLASS: 13 MSN: 0003P

ACCN: S085186 25X1

TIAOSHUNTSUN PORT FACIL MIL WPNS/EQUIP EXPORT

WAC NO : 0615

BE/OBJ NO:

CH 211804N 1102429F

NPIC NO : - 1-K1

IDHS CODE:

EPF CAT : 751

COMIREX NO:

TIAOSHUNTSUN PORT FACIL MIL WPNS/EQUIP EXPORT

WAC NO : 0615

BE/OBJ NO:

CH 211804N 1102429F

NPIC NO : - 1-K1

IDHS CODE:

EPF CAT : 35E

COMIREX NO:

THIS REPORT PROVIDES A CHRONOLOGICAL LISTING OF MILITARY WEAPONS AND EQUIPMENT IDENTIFIED AT TIAO-SHUN-TSUN PORT FACILITIES, CHINA, FROM JANUARY TO AUGUST 1978. THIS IS THE ONLY PORT IN CHINA WHERE OIA HAS OBSERVED MILITARY WEAPONS AND EQUIPMENT BEING EXPORTED TO THIRD WORLD COUNTRIES.*

CIA INFR IS10211K-78 22 AUG 78 SEC CLASS: 13 MSN: 0007P

ACCN: S085187 25X1

MISSILES, CSS-3 SERVICE TOWER CHIUMENGCHIN

WAC NO :

BE/OBJ NO:

CH

NPIC NO : -

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

CHIUMENGCHIN SSM FIELD POSITION CSS-3 SVC TWR

WAC NO : 0385

BE/OBJ NO:

CH 344809N 1124025E

NPIC NO : - 17-A1

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

DURING THE SUMMER OF 1977, THE CHINESE CONSTRUCTED A UNIQUE MISSILE SERVICE TOWER IN CONJUNCTION WITH THE NEW TRAINING FACILITIES BEING BUILT AT THE CHIU-MENG-CHIN SURFACE-TO-SURFACE MISSILE (SSM) FIELD POSITION IN HONAN PROVINCE. THE TOWER APPEARS TO BE CONFIGURED FOR THE CSS-3 INTERCONTINENTAL BALLISTIC MISSILE (ICBM). IT IS UNIQUE IN THAT IT PIVOTS AT THE BASE AND CAN BE RAISED AND LOWERED, PROBABLY HYDRAULICALLY. HOWEVER, SINCE THE TOWER HAS NEVER BEEN PHOTOGRAPHED IN USE, OIA IS UNABLE TO DETERMINE

1973
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WHETHER IT IS USED TO ERECT THE MISSILE OR THE MISSILE IS ASSEMBLED IN THE ERECTED TOWER.

CIA INFR 1510230J-78 25 SEP 78 [REDACTED] SEC CLASS: 24 MSN: 0003P ACCN: 50851825X1

MILITARY, GROUND FORCES REORGANIZATION/REDPL EG
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

SINCE LATE JULY 1978 THE EGYPTIAN ARMY HAS REORGANIZED EIGHT BRIGADES AND REDEPLOYED ELEMENTS OF THREE DIVISIONS AND THREE INDEPENDENT BRIGADES. THE AREAS AFFECTED BY THESE REDEPLOYMENTS ARE THE SUEZ CANAL FRONT, CAIRO, AND THE WESTERN MILITARY DISTRICT. THE SIZE OF THE FORCES IN THE WESTERN MILITARY DISTRICT HAS INCREASED WHILE THE SIZE OF THE FORCE IN THE SUEZ CANAL FRONT HAS CHANGED VERY LITTLE. THE ONLY NET DECREASE IN FORCES WAS IN THE CAIRO AREA.

CIA INFR 1510222K-78 08 SEP 78 [REDACTED] SEC CLASS: 13 MSN: 0006P ACCN: 50851825X1

KOTLAS CHLORINE PLANT SEARCH UR 6116 N 04635 E
 WAC NO : 0101 BE/OBJ NO: NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]
 UFA CHEMICAL PLANT CHLORINE PRODUCTION UR 545035N 0560608E
 WAC NO : 0165 BE/OBJ NO: NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]
 BEREZNIKI CHEMICAL COMBINE CHLORINE PLANT UR 592419N 0564419E
 WAC NO : 0156 BE/OBJ NO: NPIC NO : - 2-B
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]
 STERLITAMAK ELECTROCHEMICAL CMB CHLORINE PLT UR 534008N 0555602E
 WAC NO : 0165 BE/OBJ NO: NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]
 SLAVYANSK SODA ASH PLANT UR 485100N 0373930E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]
 LISICHANSK SODA ASH PLANT UR 485330N 0382830E
 WAC NO : 0234 BE/OBJ NO: NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 30F COMIREX NO: [REDACTED]

OIA HAS SEARCHED THE VERKHNEYE, SLAVYANSK, STERLITAMAK, BEREZNIKI, UFA, AND KOTLAS AREAS FOR CHLORINE PLANTS OR ANY OTHER INDUSTRIAL CONSUMER OF LARGE AMOUNTS OF SALT. THE PLANTS IDENTIFIED WERE ANALYZED TO DETERMINE IF THEY WERE USING CRYSTALLINE SALT OR SALT SOLUTION AS FEEDSTOCK. AT THE PLANTS USING SALT SOLUTION, OIA SEARCHED THE SURROUNDING AREA FOR SOLUTION MINING OF SALT DEPOSITS WHERE UNDERGROUND CAVITIES MIGHT BE FORMED WHICH COULD BE USED FOR TESTING OF NUCLEAR EXPLOSIVES. ONLY THE SALT MINES ASSOCIATED WITH PLANTS IN THE SLAVYANSK AND VERKHNEYE AREAS APPEARED TO QUALIFY. THESE SALT SOLUTION MINES ARE ASSOCIATED WITH SODA ASH PLANTS IN WHICH THE SALT, AS BRINE, IS USED IN THE SOLVAY PROCESS FOR MAKING SODA ASH. THESE MINES ARE IN RELATIVELY UNINHABITED AREAS AND REMOTE FROM THE SODA ASH PLANTS. SUBSISTENCE

1974
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CRATERS OBSERVED IN THE MINING AREAS INDICATE UNDERGROUND CAVITIES HAVE BEEN FORMED NEAR THE SURFACE, PROBABLY AS A RESULT OF THE SOLUTION MINING.

CIA INFR IS10233K-78 29 SEP 78 SEC CLASS: 13 MSN: 0009P ACCN: S085190

25X1

AIRCRAFT, DELIVERIES SOVIET

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05A

IZ
NPIC NO : -
COMIREX NO:

MISSILES, SA-9 DELIVERIES SOVIET

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40C

IZ
NPIC NO : -
COMIREX NO:

MILITARY, EQUIPMENT DELIVERIES SOVIET

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 35

IZ
NPIC NO : -
COMIREX NO:

SOVIET MILITARY EQUIPMENT DELIVERIES TO IRAQ DURING THE FIRST SIX MONTHS OF 1978 INCLUDED AIRCRAFT, ARMORED VEHICLES, AND A VARIETY OF MILITARY TRANSPORT VEHICLES AND SUPPORT EQUIPMENT. IN ADDITION, THE FIRST DELIVERIES OF THE SOVIET SA-9 MISSILE SYSTEM TO IRAQ WERE OBSERVED DURING JULY 1978. HOWEVER, THERE WERE NO CONFIRMED DELIVERIES OF SOVIET TANKS, FIELD ARTILLERY, OR ANTI-AIRCRAFT WEAPONS TO IRAQ IN THE FIRST HALF OF 1978. IRAQ ALSO RECEIVED ADDITIONAL DELIVERIES OF FRENCH HELICOPTERS AND EUROPEAN-MANUFACTURED TRANSPORT VEHICLES IN EARLY 1978.

CIA INFR IS10232K-78 27 SEP 78 SEC CLASS: 13 MSN: 0004P ACCN: S085191

25X1

MILITARY, EQUIPMENT DELIVERIES SOVIET

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 35

LY
NPIC NO : -
COMIREX NO:

WARSAW PACT MILITARY EQUIPMENT DELIVERIES TO LIBYA FROM 1 JANUARY THROUGH 16 JUNE 1978 INCLUDED JET FIGHTER AIRCRAFT, ARMORED VEHICLES, ARTILLERY, AIR DEFENSE WEAPONS AND RELATED ELECTRONICS EQUIPMENT, MOTOR TRANSPORT VEHICLES, AND SUBMARINES. ALMOST ALL OF THE MILITARY EQUIPMENT WAS OF SOVIET ORIGIN. THE BULK OF THE MILITARY EQUIPMENT WAS DELIVERED BY MERCHANT SHIP TO THE TWO MAJOR PORTS OF TARABULUS AND BENGHAZI. NEW ARMS DELIVERIES WERE ALSO IDENTIFIED AT THE PORT OF TUBRUQ AND AT KUFRA AND MISRATHA AIRFIELDS.

25X1

1975
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR IS10236J-78 29 SEP 78

SEC CLASS: 24 MSN: 0012P

ACCN: 50851925X1

MILITARY, INFANTRY DIVISION SHENYANG MR CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS MEMO GIVES AN ANALYSIS OF AN INDEPENDENT INFANTRY DIVISION. AN INFANTRY DIVISION THAT IS PROBABLY A LOCAL FORCE UNIT IS IN SOUTHEASTERN LIAONING PROVINCE, SHEN-YENG MILITARY REGION. THE DIVISION HEADQUARTERS IS LOCATED AT FENG-CHENG. SUBORDINATE UNITS INCLUDE THREE INFANTRY REGIMENTS, ONE EACH AT HSUEH-LI-CHAN, KAO-LI-MEN, AND FENG-CHENG, AND AN ARTILLERY REGIMENT AT FENG-CHENG.

CIA INFR IS10239J-78 04 OCT 78

SEC CLASS: 24 MSN: 0045P

ACCN: 50851925X1

MILITARY, AAA REGIMENT 27TH + 38TH ARMIES CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35D COMIREX NO:

AN ANTI-AIRCRAFT ARTILLERY (AAA) REGIMENT, RATHER THAN THE NORMAL AAA BATTALION IS SUBORDINATE TO EACH OF THE THREE INFANTRY DIVISIONS IN BOTH THE 27TH AND 38TH ARMIES. EACH REGIMENT CONTAINS 24 RADAR-CONTROLLED 57-MM AAA GUNS, EIGHTEEN 37-MM AAA GUNS, AND SIX OR 12 ZPU-4 ANTI-AIRCRAFT HEAVY MACHINE GUNS (AAHMGs). THIS IS ABOUT TWICE THE NUMBER OF GUNS SEEN IN AN AAA BATTALION SUBORDINATE TO OTHER MAIN FORCE INFANTRY DIVISIONS.

AN INDEPENDENT TACTICAL AAA DIVISION IS ALSO DEPLOYED IN THE AREA OF THE 27TH AND 38TH ARMIES. THIS DIVISION COULD BE USED TO SUPPORT EITHER OF THE TWO ARMIES. IT HAS A HEADQUARTERS AND FIVE AAA REGIMENTS.

1976
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

EACH REGIMENT IS EQUIPPED WITH ABOUT 60 AAA GUNS.

CIA INFR TSDU75-78 22 AUG 78 [] SEC CLASS: 25 MSN: 0006P ACCN: 5085195 25X1

NAKHODKA SHIP REPAIR PLANT PRIMORSKIY TGT BARGES UR 424701N 1325222E
 WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 16-63 25X1
 IDHS CODE: [] EPF CAT : 75E COMIREX NO: 25X1
 NAKHODKA SHIPYARD TARGET BARGES UR 424756N 1325257E
 WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 16-63 25X1
 IDHS CODE: [] EPF CAT : 75E COMIREX NO: 25X1

THIS MEMORANDUM SUPPLEMENTS PREVIOUS REPORTING ON TARGET BARGE ACTIVITY IN THE VLADIVOSTOK AREA OF THE SOVIET PACIFIC FLEET. RECENT ANALYSIS HAS REVEALED THAT TARGET BARGES BASED IN THE VLADIVOSTOK AREA ARE OCCASIONALLY REPAIRED AT NAKHODKA--A MAJOR COMMERCIAL PORT LOCATED SOME 80 KILOMETERS EAST-SOUTHEAST OF VLADIVOSTOK. OIA FIRST OBSERVED A TARGET BARGE AT NAKHODKA ON SATELLITE IMAGERY [] SINCE THAT TIME, THE OBSERVATION OF ONE AND OCCASIONALLY TWO TARGET BARGES AT NAKHODKA HAS BEEN COMMON. THESE BARGES ARE NORMALLY REPAIRED AT THE NAKHODKA SHIPYARD; HOWEVER, ONE BARGE WAS SEEN AT A SECOND LOCATION IN NAKHODKA--THE PRIMORSKIY SHIP REPAIR PLANT--IN 1977. THE FACILITIES AT NAKHODKA APPARENTLY SUPPLEMENT THE REPAIR FACILITIES AT THE NEARBY DUNAY SUBMARINE BASE AND SHIPYARD RAZBOYNIK BAY--THE PRIMARY BERTHING AND REPAIR AREA FOR TARGET BARGES IN THE VLADIVOSTOK AREA. 25X1

ALL TARGET BARGES OBSERVED AT NAKHODKA HAVE BEEN 105- OR 107-METER-LONG, SINGLE-HULLED BARGES. THEY HAVE BEEN EQUIPPED WITH RADAR REFLECTORS, SUPPORTS FOR REFLECTIVE SCREENS AND, IN MOST CASES, HEAT GENERATORS. ONE BARGE, IN ADDITION TO CARRYING A STANDARD CONICAL HEAT GENERATOR, WAS ALSO EQUIPPED WITH WHAT OIA BELIEVES MAY BE A NEW TYPE OF HEAT LIKE STRUCTURE--WAS POSITIONED AT ONE END OF THE BARGE. A TABLE PRESENTS A CHRONOLOGY OF TARGET BARGE ACTIVITY AT NAKHODKA [] 25X1

CIA INFR IS10203J-78 20 SEP 78 [] SEC CLASS: 25 MSN: 0015P ACCN: 5085196 25X1

ELECTRONICS, AIRBORNE COMMAND POSTS UR
 WAC NO : BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: EPF CAT : 25H COMIREX NO:
 AIRCRAFT, CRUZY TU-134 MODIFIED UR
 WAC NO : BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: EPF CAT : 05D COMIREX NO:
 AIRCRAFT, COOT A IL-20 UR
 WAC NO : BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: EPF CAT : 05D COMIREX NO:
 AIRCRAFT, CLASSIC IL-62 MODIFIED UR
 WAC NO : BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: EPF CAT : 05D COMIREX NO:
 AIRCRAFT, COOT IL-22 AIRBORNE COMMAND CONFIG UR
 WAC NO : BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: EPF CAT : 05D COMIREX NO:

1977
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MOSKVA/SHCHELKOVO AIRFIELD

WAC NO : 0167
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 05AUR 555248N 0380347E
NPIC NO : - 51
COMIREX NO: [REDACTED]25X1
25X1

THIS REPORT PRESENTS A DESCRIPTION OF THE AIRCRAFT PARKING PATTERNS, IDENTIFICATION OF POSSIBLE MILITARY LEADERSHIP ASSOCIATED AIRCRAFT AND MODIFIED AIRCRAFT, AND A BRIEF SUMMARY OF FACILITY CONSTRUCTION AND ACTIVITY SEEN AT MOSKVA/SHCHELKOVO AIRFIELD.

CIA INFR IS10231K-78 28 SEP 78 [REDACTED] SEC CLASS: 14B MSN: 0005P

ACCN: S08519725X1

MISSILES, SLBM LAUNCH TUBE COVERS NEW IDENT

WAC NO : [REDACTED] BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40GUR [REDACTED]
COMIREX NO: [REDACTED]

SEVERODVINSK SHIPYARD SLBM LAUNCH TUBE COVERS

WAC NO : 0092 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 75EUR 643438N 0394832E
NPIC NO : - 7-A
COMIREX NO: [REDACTED]25X1
25X1

SEVERODVINSK SHIPYARD SLBM LAUNCH TUBE COVERS

WAC NO : 0092 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40GUR 643438N 0394832E
NPIC NO : - 7-A
COMIREX NO: [REDACTED]25X1
25X1

OIA HAS IDENTIFIED TWO DISTINCT BOX-LIKE COVERS AT SEVERODVINSK SHIPYARD 402 WHICH THEY BELIEVE ARE USED TO CONCEAL SUBMARINE-LAUNCHED BALLISTIC-MISSILE (SLBM) LAUNCH TUBES WHEN THEY ARE MOVED WITHIN THE SHIPYARD. ONE TYPE OF COVER--BELIEVED TO BE USED TO CONCEAL SS-N-18 MISSILE TUBES--WAS FIRST SEEN AT SEVERODVINSK IN FEBRUARY 1975, AND WAS STILL BEING USED AS LATE [REDACTED] A NEW, LARGER COVER WAS OBSERVED AT SEVERODVINSK FOR THE FIRST TIME [REDACTED] OIA BELIEVES THIS TYPE OF COVER IS BEING USED TO CONCEAL THE LAUNCH TUBES FOR THE NEW, LARGE NUCLEAR-POWERED BALLISTIC-MISSILE SUBMARINE (SSBN) BELIEVED TO BE UNDER CONSTRUCTION AT SEVERODVINSK.

25X1
25X1

AF PAR 649-78 17 AUG 78 [REDACTED] SEC CLASS: 13 MSN: 0003P

ACCN: S08519725X1

KAPUSTIN YAR MTC NAVAL TEST COMPLEX B SITE 1

WAC NO : 0235 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40GUR 484012N 0461615E
NPIC NO : - 10-A5
COMIREX NO: [REDACTED]25X1
25X1

KAPUSTIN YAR MTC INSTRUMENTATION SITE A6

WAC NO : 0235 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 25CUR 484130N 0461400E
NPIC NO : - 10-F2
COMIREX NO: [REDACTED]25X1
25X1

KAPUSTIN YAR MTC SRBM CPLX A ASBLY/CHECKOUT

WAC NO : 0235 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40BUR 484116N 0461648E
NPIC NO : - 10-A4
COMIREX NO: [REDACTED]25X1
25X1

THIS REPORT PROVIDES AN UPDATED PHOTO ANALYSIS AND CHRONOLOGY OF THE ASSEMBLY/CHECKOUT AREA OF KAPUSTIN YAR SRBM TEST COMPLEX A SITE 1, THE KAPUSTIN YAR INSTRUMENTATION SITE A-6, AND THE KAPUSTIN YAR NAVAL TEST COMPLEX B SITE 1.

1978
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT UPDATES PAR 76-608 AND PARAGRAPH 2D OF PAR 74-601.*

AF PAR 645-78 07 AUG 78 [] SEC CLASS: 13 MSN: 0002P ACCN: S085199 25X1
 TEREKTY ASM IMPACT AREA RADAR AREA A U/I OBJ UR 481515N 0483140E
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 39-E 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT DESCRIBES THE MISSILE-LIKE OBJECT AT TEREKTY ASM IMPACT AREA - RADAR AREA A. THE OBJECT HAS BEEN IDENTIFIED AS A FINNED PROBABLE AIRCRAFT AUXILIARY FUEL TANK. THE OBJECT IS POSITIONED ABOVE THE GROUND ON A PLATFORM/SUPPORT AND COULD BE SERVING AS A FUEL STORAGE TANK FOR NEARBY ACTIVITY.*

AF PAR 655-78 17 AUG 78 [] SEC CLASS: 13 MSN: 0003P ACCN: S085200 25X1
 VINNITSA SRF ARMY HEADQUARTERS RADIO XMTR BKR UR 493030N 0280010E
 WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 64-0 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT PROVIDES AN ANALYSIS OF VINNITSA SRF ARMY HQ RAD XMTR/BKR. IT PROVIDES MENSURATIONS OF ALL THE ANTENNAS LOCATED AT THE FACILITY AS WELL AS A REPORT ON THE AZIMUTH OF THE LONG AXIS OF THE TYPE C COMSAT BUILDING AND THE NUMBER OF ANTENNAS ON THIS BUILDING.*

AF PAR 654-78 16 AUG 78 [] SEC CLASS: 13 MSN: 0006P ACCN: S085202 25X1
 TUNGTAO/TANCHOU RAIL LINE CONSTRUCTION STATUS CH 2622 N 10940 E
 WAC NO : 0497 BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: [] 25X1
 TANCHOU/TUNGTAO RAIL LINE CONSTRUCTION STATUS CH 2522 N 10926 E
 WAC NO : 0497 BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: [] 25X1
 TANCHOU SSM SITE POSS U/C CH 252600N 1092730E
 WAC NO : 0497 BE/OBJ NO: [] NPIC NO : - 120 25X1
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: [] 25X15X1

THIS REPORT PROVIDES AN ANALYSIS OF THE POSSIBLE SSM LAUNCH SITE BEING CONSTRUCTED AT THE TAN-CHOU

1979
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

PROBABLE STORAGE FACILITY.
IN ADDITION, THE RESULTS OF A SEARCH OF A 5-KILOMETER RADIUS AREA SURROUNDING THE FACILITY FOR MISSILE
RELATED ACTIVITY; A SEARCH ALONG AND DETERMINATION OF THE CONSTRUCTION STATUS OF A NEARBY RAIL LINE; AND A
SEARCH OF THE ROAD FROM TAN-CHOU NORTH TO THE TUNG-TAO SSM LAUNCH SITE ICBM ARE ALSO PROVIDED.*

25X1

AF ENDR D6533-78 11 AUG 78 SEC CLASS: 13 MSN: 0001P ACCN: S085204 25X1

ALEYSK ICBM RTP SS-18 PROPELLANT TRF/STGE FAC UR 522828N 0824138E

WAC NO : 0162 BE/OBJ NO: NPIC NO : - 33-J 25X1

IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PARS 78-657 AND 76-523.*

AF ENDR D6522-6-71 02 AUG 78 SEC CLASS: 13 MSN: 0001P ACCN: S085205 25X1

MOSKVA AIRCRAFT ENG EXPMT PLT LUZNetskAYA 300 UR 554254N 0373415E

WAC NO : 0167 BE/OBJ NO: NPIC NO : - 94-A3 25X1

IDHS CODE: EPF CAT : 05G COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PARS 77-720 AND 78-648 AND SUPERSEDES DRAWING 67C6553.*

AF ENDR D6518-1-76 14 JUL 78 SEC CLASS: 13 MSN: 0001P ACCN: S085206 25X1

IVANKOVO ELECTRONICS R+D FACILITY PROR UR 564350N 0370600E

WAC NO : 0154 BE/OBJ NO: NPIC NO : - 18-F1 25X1

IDHS CODE: EPF CAT : 25E COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PARS 76-667 AND 78-633.*

25X1

1980
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR C3501-6-70 27 JUL 78 SEC CLASS: 13 MSN: 0001P

ACCN: S085210

25X1

MOSKVA GUIDED MISSILE R+D/PROD PLT TEST STAND

UR 555444N 0372701E

WAC NO : 0167

BE/OBJ NO:

NPIC NO : - 48-B1

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-602 AND 78-640 AND SUPERSEDES DRAWING 6784503.*

AF ENDR B1510-1-77 JUL 78 SEC CLASS: 13 MSN: 0001P

ACCN: S085211

25X1

SARY SHAGAN MTC ELCT TEST FAC COFFIN SHELTER

UR 455100N 0733500E

WAC NO : 0245

BE/OBJ NO:

NPIC NO : - 34-D2

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-598 AND 78-630.*

25X1

1981
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR C6527-1-77 25 JUL 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 5085219 25X1
LYUBERTSY HELICOPTER EXPERIMENTAL PLANT KAMOV UR 554154N 0375242E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 94-A4 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PARS 77-656 AND 78-644 AND SUPERSEDES DRAWING 70C6587/4.*

AF ENDR U6530-7-71 26 JUL 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 5085220 25X1
ZAPOROZHYE AIRCRAFT ENGINE PLANT 478 UR 474928N 0351147E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 47-E 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PARS 76-580, 78-700, 71-598, 69-672, 77-709, AND 78-642 AND SUPERSEDES DRAWING 67C6575.*

AF ENDR C4519-78 19 JUL 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 5085221 25X1
MISSILES, MISSILE LOAD SIMULATORS UR
WAC NO : BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 401 COMIREX NO: []

AF ENDR C4532-3-69 26 JUL 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 5085222 25X1
ZAPOROZHYE AIRCRAFT ENGINE PLT 478 TEST CELL UR 474928N 0351147E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 47-E 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1
THIS DRAWING SUPPLEMENTS PARS 69-672, 76-580, 77-709, AND 78-642.*

AF ENDR C6506-2-76 26 JUL 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 5085223 25X1
MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E

1983
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N1
IDHS CODE: EPF CAT : 056 COMIREX NO:
MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N1
IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1

25X1

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-613 AND 78-641 AND SUPERSEDES DRAWING C6544/70.*

AF ENDR D3509-78 10 JUL 78 SEC CLASS: 13 MSN: 0001P

ACCN: 5085225X1

PECHORA PHASED-ARRAY RADAR FACIL EASTERN ANT UR 651230N 0571720F
WAC NO : 0093 BE/OBJ NO: NPIC NO : - 29-A
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1

25X1

AF PAR 648-78 03 AUG 78 SEC CLASS: 13 MSN: 0002P

ACCN: 5085225X1

MOSKVA AIRCRAFT ENG EXPMT PLT LUZHETSKAYA 300 UR 554254N 0373415E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 94-A3
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

THIS REPORT AND DRAWING 7106522/6 PROVIDE AN UPDATED ANALYSIS OF THE MOSKVA AIRCRAFT ENGINE
EXPERIMENTAL PLANT LUZHETSKAYA 300. THIS REPORT SUPPLEMENTS PAR 77-720.*

25X1

AF ENDR C4518-78 14 JUL 78 SEC CLASS: 13 MSN: 0001P

ACCN: 5085225X1

IVANKOVO ELECTRONICS R+D FAC WIND TUNNEL SUSP UR 564350N 0370600E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 18-E1
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 76-607 AND 78-633.*

AF ENDR C6589-0-70 31 JUL 78 SEC CLASS: 13 MSN: 0001P

ACCN: 5085225X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSAGI 156 UR 554542N 0374034E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 96-D
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1

25X1

1984
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS DRAWING SUPPLEMENTS PARS 76-616 AND 78-646.*

DIA	NBRG	NDA07-5215-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085229	
		DAURIYA ARMY BARRACKS AL1/HQ	MRD/SAM SUPPORT	UR	495550N 1165107E			
		WAC NO : 0202	BE/OBJ NO:	NPIC NO :	- 5			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1
		DAURIYA ARMY BARRACKS AL1/HQ	MRD/SAM SUPPORT	UR	495550N 1165107E			
		WAC NO : 0202	BE/OBJ NO:	NPIC NO :	- 5			25X1
		IDHS CODE:	EPF CAT : 40C	COMIREX NO:				25X1
DIA	NBRG	NDA07-5216-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085230	
		BEZRECHNAYA ARMY BARRACKS AL1	SA-8 REGIMENT	UR	504306N 1161057E			
		WAC NO : 0202	BE/OBJ NO:	NPIC NO :	- 6-F			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5217-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085231	
		KHOMUTOVO ARMY BARRACKS AL1		UR	465256N 1424550E			
		WAC NO : 0281	BE/OBJ NO:	NPIC NO :	- 41-B			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5218-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085232	
		SOKOL ARMY BARRACKS NE AL2		UR	471715N 1424630E			
		WAC NO : 0281	BE/OBJ NO:	NPIC NO :	- 27-E			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5219-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085233	
		DACHNOYE ARMY BARRACKS NORTH	AL1	UR	464546N 1424447E			
		WAC NO : 0281	BE/OBJ NO:	NPIC NO :	- 28-K			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5220-78	18 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085234	
		DACHNOYE ARMY BARRACKS AL2 +	HQ ARTILLERY DIV	UR	464409N 1424525E			
		WAC NO : 0281	BE/OBJ NO:	NPIC NO :	- 28-I			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:				25X1

25X1

1985
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

ARMY PIM

PIM064-78

SEP 78

SEC CLASS: 14E MSN:

0004P

ACCN: S085247

25X1

NANNING RADIO COMMUNICATIONS RCVR STA NORTH

CH 225241N 1081736E

WAC NO : 0615

RE/OBJ NO:

NPIC NO : - 14-C1

IDHS CODE:

EPF CAT : 250

COMIREX NO:

25X1

25X15X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF THE NAN-NING RADCOM RCVR STA NORTH, PRC. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADCOM STATION. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH THEIR ORIENTATIONS.

1989
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

ARMY PIM PIM060-78 31 AUG 78 SEC CLASS: 14E MSN: 0004P ACCN: S0852425X1
LEIYANG RADIO COMMUNICATIONS XMTR STA WEST CH 263456N 1125103E
WAC NO : 0497 BE/OBJ NO: NPIC NO : - 28-C 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE LEI-YANG RADCOM XMTR STA W PRC. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADCOM STATION. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH THEIR ORIENTATIONS.

ARMY PIM PIM061-78 31 AUG 78 SEC CLASS: 14E MSN: 0004P ACCN: S0852425X1
LEIPEI VLF/LF RADIO COMMO XMTR STATION BKR CH 212848N 1101528E
WAC NO : 0615 BE/OBJ NO: NPIC NO : - 35-D1 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A DESCRIPTION OF THE LEI-PEI VLF/LF RADCOM XMTR STA/BNK, PEOPLE'S REPUBLIC OF CHINA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADCOM STATION. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH THEIR MEASUREMENTS AND ORIENTATIONS.

ARMY PIM PIM070-78 04 OCT 78 SEC CLASS: 14E MSN: 0003P ACCN: S08525025X1
CHANGHWA DONG SIGINT FACILITY KN 380450N 1264325E
WAC NO : 0380 BE/OBJ NO: NPIC NO : - 25X1
IDHS CODE: EPF CAT : 25 COMIREX NO:

1990
TOP SECRET CHESS RUFF

25X1

25X1

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TOP SECRET CHESS RUFF

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DIA IAPPR 216-78 15 SEP 78

SEC CLASS: 14

MSN:

0007P

ACCN: 5085255

25X1

MISSILES, FROG-7 EQUIPMENT CONFIRMED

KN

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 40R

COMIREX NO:

EQUIPMENT ASSOCIATED WITH THE SOVIET FREE-ROCKET OVER-GROUND-7 (FROG-7) SURFACE-TO-SURFACE SYSTEM HAS BEEN CONFIRMED IN NORTH KOREA. SINCE LESS-DEFINITIVE PHOTOGRAPHS HAVE SHOWN THE POSSIBLE PRESENCE OF THIS WEAPON SINCE THE EARLY 1970S, THE CONFIRMATION DOES NOT INDICATE RECENT INTRODUCTION. THE FROG-7 SYSTEM PROVIDES GREATER RANGE AND ACCURACY AND REDUCED MAINTENANCE OVER NORTH KOREA'S FROG-3 AND 5 SYSTEMS. IT ONLY MARGINALLY INCREASES OVERALL MILITARY CAPABILITIES, HOWEVER. WHILE THE FROG-7 HAS NUCLEAR, CHEMICAL, AND HIGH-EXPLOSIVE CAPABILITIES, NORTH KOREA PROBABLY HAD ONLY THE HIGH-EXPLOSIVE WARHEAD. THE NORTH KOREANS ARE NOT KNOWN TO BE CAPABLE OF MANUFACTURING EITHER FROG ROCKETS OR WARHEADS. THEY ARE DEPENDENT ON SOVIET OR THIRD-COUNTRY SOURCES AND RESUPPLY IS LIKELY TO BE LIMITED.

25X1

25X1

1993

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA STDY DDB2680-22A-78 SEP 78 SEC CLASS: 25 X MSN: 0041P ACCN: S085257 25X1

SPACE, DEVELOPMENTS
WAC NO :
IDHS CODE:
SHIPS, DEVELOPMENTS
WAC NO :
IDHS CODE:
MILITARY, DEVELOPMENTS
WAC NO :
IDHS CODE:
AIRCRAFT, DEVELOPMENTS
WAC NO :
IDHS CODE:
MISSILES, DEVELOPMENTS
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40H
BE/OBJ NO:
EPF CAT : 75D
BE/OBJ NO:
EPF CAT : 35
BE/OBJ NO:
EPF CAT : 05
BE/OBJ NO:
EPF CAT : 40

CH
NPIC NO : -
COMIREX NO:
CH
NPIC NO : -
COMIREX NO:
CH
NPIC NO : -
COMIREX NO:
CH
NPIC NO : -
COMIREX NO:
CH
NPIC NO : -
COMIREX NO:

DIA IAPPR 226-78 30 SEP 78 SEC CLASS: 25 Y MSN: 0013P ACCN: S085258 25X1

CHENG TU AIRFRAME PLANT 132
WAC NO : 0495
IDHS CODE:
SHENYANG AIRCRAFT ENGINE PLANT 410
WAC NO : 0290
IDHS CODE:
SHENYANG AIRFRAME PLANT 112
WAC NO : 0290
IDHS CODE:
AIRCRAFT, PRODUCTION PLANTS
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05G
BE/OBJ NO:
EPF CAT : 05G
BE/OBJ NO:
EPF CAT : 05G
BE/OBJ NO:
EPF CAT : 05G

CH 304227N 1035747E
NPIC NO : - 29-U
COMIREX NO:
CH 414740N 1232950E
NPIC NO : - 55-P
COMIREX NO:
CH 415208N 1232600E
NPIC NO : - 55-Q
COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

RECENT VISITS TO THE SHENYANG AIRFRAME AND AIRCRAFT ENGINE PLANTS BY WESTERN REPRESENTATIVES HAVE PROVIDED INSIGHT INTO THE OPERATION AND STATE-OF-THE-ART OF CHINA'S AIRCRAFT INDUSTRY. THE VISITS TOOK PLACE IN LATE APRIL AND JULY 1978 AND WERE MADE BY A BRITISH MILITARY DELEGATION AND BY SENIOR US AIRCRAFT MANUFACTURING EXECUTIVES. GENERAL ACTIVITY AT THE PLANTS INCLUDED PRODUCTION OF THE MIG-19 FARMER FIGHTER AND TANDEM-SEAT VARIANT, MODIFICATION OF THE MIG-17/FRESCO FIGHTER, AND UNIDENTIFIED JET ENGINE PRODUCTION. THE OBSERVER'S CONCLUSION CONFIRMED PREVIOUS ESTIMATES THAT CHINESE AIRCRAFT MANUFACTURING TECHNOLOGY REMAINS 25 TO 30 YEARS BEHIND THAT OF THE US. THEY NOTED A LACK OF QUALITY AND PRODUCTION

1994
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

REV1
25X1

CONTROL, AN ABSENCE OF COMPUTER-CONTROLLED MACHINERY, POOR USE OF AVAILABLE MACHINE TOOLS, AND EXTENSIVE MANUAL PROCESSES.

DIA IAPPR 221-78 26 SEP 78 [] SEC CLASS: 25 MSN: 0011P ACCN: S085259 25X1

AIRCRAFT, BEAR D TU-95 DEPLOYMENT

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05A
CIENFUEGOS PETROLEUM STGE FAC POSS U/C
WAC NO : 0586 BE/OBJ NO:
IDHS CODE: EPF CAT : 80A

CU
NPIC NO : -
COMIREX NO:
CU 220825N 0802720W
NPIC NO : - 51-A
COMIREX NO:

25X1
25X1

NAVAL, DEPLOYMENT SOVIET

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 75
MILITARY, GROUND FORCE ACTIVITY SOVIET
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 35

CU
NPIC NO : -
COMIREX NO:
CU
NPIC NO : -
COMIREX NO:

LOURDES MILITARY HQ TORRENS ELECTRONICS FACIL

WAC NO : 0586 BE/OBJ NO:
IDHS CODE: EPF CAT : 35A
LOURDES MILITARY HQ TORRENS ELECTRONICS FACIL
WAC NO : 0586 BE/OBJ NO:
IDHS CODE: EPF CAT : 25

CU 225938N 0822755W
NPIC NO : - 458-A2
COMIREX NO:
CU 225938N 0822755W
NPIC NO : - 458-A2
COMIREX NO:

25X1
25X125X1
25X1

THE SOVIET'S OPERATION OF THE TORRENS ELECTRONICS FACILITY, ARMS DELIVERIES TO HAVANA, AND NAVAL DEPLOYMENTS TO CUBA DEMONSTRATE THE USSR'S INTEREST IN CUBA AS WELL AS IN THE WESTERN HEMISPHERE. SINCE THE LATER HALF OF 1977, THERE HAVE BEEN ALLEGED SOVIET GROUND FORCES IN THE COUNTRY, UNIDENTIFIED CONSTRUCTION NEAR CIENFUEGOS, AND AN INCREASE IN THE NUMBER OF SOVIET PILOTS IN CUBA. WHILE THESE ACTIVITIES MAY CAUSE CONCERN OVER THE SOVIET MILITARY PRESENCE IN CUBA, THEY DO NOT SEEM AT THE PRESENT TIME TO CONSTITUTE A DIRECT CHALLENGE TO US INTERESTS.

25X1

1995
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CRESS RUFF

25X1

25X1

DIA STDY DDB1200-133-78 SEP 78 SEC CLASS: 25 MSN: 0046P

ACCN: S085268 25X1

MISSILES, CRUISE MISSILE NETWORK DEVELOPMENTS CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40K COMTREFX NO:

THIS REPORT SHOWS THE DEVELOPMENT, DEPLOYMENT, AND INTERRELATIONSHIPS OF THE PRC CRUISE MISSILE NETWORK: LAND-BASED SITES AND SEA-BASED PLATFORMS. INCLUDED ARE SECTIONS ON COMMAND AND CONTROL AND TACTICS.

IN THE 1960S THE PEOPLE'S REPUBLIC OF CHINA NAVY (PRCN) WAS GIVEN THE RESPONSIBILITY TO DEVELOP A CRUISE MISSILE NETWORK FOR DEFENSE OF THE COASTLINE. CONSEQUENTLY, THE PRCN CONSTRUCTED LAND-BASED SITES AND SEA-BASED PLATFORMS SUITABLE FOR THE CRUISE MISSILES IT HAD UNDER DEVELOPMENT. SIGNIFICANT RESULTS OCCURRED IN 1972 AND 1973 WHEN SUBSTANTIAL NUMBERS OF THE SITES AND PLATFORMS BECAME AVAILABLE FOR DEPLOYMENT OF THE CRUISE MISSILES. AT PRESENT, THE PRCN HAS 20 OPERATIONAL CRUISE MISSILE-EQUIPPED PRINCIPAL SURFACE COMBATANTS, ABOUT 230 MISSILE ATTACK BOATS, AND 13 OPERATIONAL CRUISE MISSILE COASTAL DEFENSE SITES. WHILE PAST EMPHASIS WAS DIRECTED TOWARD THE CONSTRUCTION OF MISSILE ATTACK BOATS AND CRUISE MISSILE COASTAL DEFENSE SITES, CONSTRUCTION OF PRINCIPAL SURFACE COMBATANTS WILL PROBABLY BE EMPHASIZED IN THE FUTURE. IT IS EXPECTED THAT THE PRCN'S DEFENSIVE CRUISE MISSILE NETWORK WILL CONTINUE TO GROW, BUT AT A MUCH SLOWER RATE. THE NETWORK HAS BEEN SO WELL DEVELOPED THAT EVERY ASPECT (FACILITIES, LOGISTICS, SURVEILLANCE, AND TACTICS) COMPLEMENTS THE OTHER TO PROVIDE A FORMIDABLE DEFENSIVE FORCE.

DIA STDY DDB2680-238-78 AUG 78 SEC CLASS: 25 MSN: 0044P

ACCN: S085265 25X1

MILITARY, DEVELOPMENTS UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMTREFX NO:

1997

TOP SECRET CRESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS, DEVELOPMENTS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25

UR
NPIC NO : -
COMIREX NO:

AIRCRAFT, DEVELOPMENTS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05

UR
NPIC NO : -
COMIREX NO:

NAVAL, DEVELOPMENTS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 75

UR
NPIC NO : -
COMIREX NO:

MISSILES, DEVELOPMENTS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40

UR
NPIC NO : -
COMIREX NO:

25X1

1998
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA STDY DST2610R-358-78 15 SEP 78

SEC CLASS: 25

MSN:

0036P

ACCN: S085271

25X1

ELECTRONICS, COMMAND CONTROL SYSTEM AIR DEF
 WAC NO : BE/OBJ NO:
 IDHS CODE: EPF CAT : 25H

KN
 NPIC NO : -
 COMIREX NO:

THE AIR DEFENSE SYSTEM OF NORTH KOREA IS PREDOMINANTLY EQUIPPED WITH SOVIET WEAPONS/EQUIPMENT AND GENERALLY EMPLOYS THE PVO STRATEGY AS A MODEL FOR ORGANIZATION, COMMAND AND CONTROL, AND TACTICS.

THE NORTH KOREAN AIR FORCE (NKAF), WHICH HAS ITS HEADQUARTERS IN THE PYONGYANG AREA, IS RESPONSIBLE FOR THE AIR DEFENSE OF THE COUNTRY. THE NKAF AIR DEFENSE COMMAND CENTER (ADCC), ALSO LOCATED NEAR PYONGYANG, EXERCISES OPERATIONAL CONTROL OF THE VARIOUS AIR DEFENSE FORCES THROUGH ITS SUBORDINATE AIR DEFENSE ZONE (ADZ) HEADQUARTERS. THE ADCC IS PROBABLY COMPOSED OF A NATIONAL AIR DEFENSE WEAPONS OPERATIONS CENTER (ADWOC), AND A NATIONAL FILTER CENTER (NFC). WITHIN THE ADWOC, THERE IS A SENIOR AIRCRAFT CONTROL CENTER (SACC) AND A NATIONAL MISSILE CONTROL CENTER (NMCC). THE SACC ACTIVELY ENGAGES IN CONTROL OF ALL AIR ACTIVITY THROUGHOUT NORTH KOREA AND THE NMCC PROVIDES THE SAM/AAA CONTROL FUNCTION. THE NFC COMPILES AND FILTERS DATA RECEIVED FROM ALL AIR SURVEILLANCE RESOURCES IN ORDER TO MAINTAIN A PICTURE OF THE AIR SITUATION. IN PEACETIME, WEAPONS RELEASE AUTHORITY PROBABLY IS RETAINED AT THE NATIONAL LEVEL. THE ABOVE ORGANIZATIONAL DESIGNATORS HAVE BEEN ARBITRARILY ASSIGNED, BASED UPON THEIR OBSERVED FUNCTION.

HIGH-FREQUENCY (HF) MANUAL MORSE IS THE PRIMARY MEANS USED BY NORTH KOREA TO TRANSMIT AIR SURVEILLANCE TRACKING DATA. THE VP-1 SEMIAUTOMATIC COMMAND AND CONTROL SYSTEM HAS ALSO BEEN DEPLOYED BY NORTH KOREA, AND PROVIDES THE 20 PERCENT OF THE RADAR SITES SO EQUIPPED WITH A MUCH FASTER AND MORE ACCURATE METHOD OF PASSING INFORMATION.

AIR/GROUND COMMUNICATIONS BETWEEN THE SACC, FIGHTER DIVISION CONTROLLERS, AND INTERCEPTOR AIRCRAFT ARE VIA VHF VOICE. ABOUT 15 PERCENT (20 OF ABOUT 120) OF THE NORTH KOREAN MIG-21 AIRCRAFT ARE THE J EXPORT MODEL. THESE AIRCRAFT ARE EQUIPPED WITH THE MARKHAM GROUND-TO-AIR DATA LINK SYSTEM, WHICH PROVIDES THE GCI SITE THE CAPABILITY TO TRANSMIT ENCODED VECTORING INSTRUCTIONS TO INTERCEPTOR AIRCRAFT.

THE NORTH KOREAN SAM FACILITIES USE HF MANUAL MORSE, HF VOICE, VHF VOICE, AND UHF MULTICHANNEL COMMUNICATIONS. THE NORTH KOREAN SAM FORCES EXTENSIVELY USE LANDLINE, WHICH IS THEIR MOST BASIC AND SECURE MEANS, FOR OPERATIONAL AND ADMINISTRATIVE COMMUNICATIONS.

25X1

1999

TOP SECRET CHESS RUFF

25X1

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25X1

DIA STUDY DST1450S-264-78 05 SEP 78

SEC CLASS: 25

MSN:

0224P

ACCN: S085273

ELECTRONICS, SPACE SYSTEMS CONTROL

UR

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

THE PURPOSE OF THIS STUDY IS TO DESCRIBE THE CHARACTERISTICS AND CAPABILITIES OF SOVIET SPACE SYSTEMS MISSION CONTROL. KEY FACILITIES AND EQUIPMENT AND THEIR OPERATING INTERRELATIONSHIPS ARE DISCUSSED FOR EACH OF THE VARIOUS SPACE SYSTEMS.

DIA STUDY DST1720R-165-78 15 SEP 78

SEC CLASS: 25

MSN:

0031P

ACCN: S085274

SHENYANG/TUNGHUA TELECOMMUNICATIONS LINE U/G

CH 414340N 1255230E

WAC NO : 0290

BE/OBJ NO:

NPIC NO : - 66-H4

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF A PRELIMINARY ANALYSIS OF A PRC MILITARY-RELATED TELECOMMUNICATIONS CABLE LINE BETWEEN SHEN-YANG AND T'UNG-HU. THE STUDY INCLUDES A DESCRIPTION OF SEVERAL NEWLY-IDENTIFIED COMMUNICATIONS FACILITIES ASSOCIATED WITH THE LINE, THE JUNCTIONS WITH OTHER LINES, THE REPEATER STATIONS ON THE LINE, POSSIBLE MISSILE AND SPACE FACILITIES USING THE LINE, AND THE POSSIBLE CABLE SHEATH GROUNDING CONFIGURATIONS SEEN ON THE LINE. THE STUDY IS THE RESULT OF EXTENSIVE ANALYSIS OF OVERHEAD PHOTOGRAPHY. DATA IS INSUFFICIENT TO ENABLE A COMPLETE ASSESSMENT OF THE TECHNICAL CAPABILITIES OR MILITARY USERS OF THE LINE.

DIA STUDY DST1070S-231-78 28 AUG 78

SEC CLASS: 25

MSN:

0341P

ACCN: S085275

CHINGYU MTC

CH 421705N 1265320E

WAC NO : 0290

BE/OBJ NO:

NPIC NO : - 201

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

WUCHAI MTC

CH 384950N 1113620E

WAC NO : 0382

BE/OBJ NO:

NPIC NO : - 77-F

IDHS CODE:

EPF CAT : 40F

COMIREX NO:

SHUANGCHENGZU MTC

CH 410800N 1001500E

WAC NO : 0087

BE/OBJ NO:

NPIC NO : - 1

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

SUNGLIN MTC

CH 281420N 1020149E

WAC NO : 0095

BE/OBJ NO:

NPIC NO : - 87-C

IDHS CODE:

EPF CAT : 40F

COMIREX NO:

TIANWEI MTC

CH 255520N 1024928E

WAC NO : 0496

BE/OBJ NO:

NPIC NO : - 14

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

2001

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CHINHSI MTC
 WAC NO : 0289 BE/OBJ NO: [REDACTED] CH 404126N 1205309E
 IDHS CODE: [REDACTED] EPF CAT : 40E NPIC NO : - 19-01
 MISSILES, MISSILE TEST CENTERS COMIREX NO: [REDACTED]
 WAC NO : BE/OBJ NO: CH
 IDHS CODE: EPF CAT : 40E NPIC NO : -
 COMIREX NO:

25X1
25X25X1

THIS STUDY PRESENTS AN ALL-SOURCE HISTORY AND ANALYSIS OF THE SURFACE-TO-SURFACE MISSILE RANGES IN THE PEOPLE'S REPUBLIC OF CHINA (PRC). THESE INCLUDE THE SHUANG-CH'ENG-TZU MISSILE TEST RANGE AND THE WU-CHAI, CHIN-YU, CHIN-HSI, AND TIEN-WEI MISSILE TEST CENTERS.

PRIMARY CUTOFF DATE FOR INFORMATION IN THIS STUDY IS 1 DECEMBER 1977 ALTHOUGH INFORMATION THROUGH 15 APRIL 1978 IS INCLUDED ON SEVERAL HIGH-INTEREST ITEMS.

SIX FLIGHT-TEST FACILITIES HAVE BEEN IDENTIFIED IN THE PEOPLE'S REPUBLIC OF CHINA (PRC). THREE OF THEM, SHUANG-CH'ENG-TZU MISSILE TEST CENTER (SCTMTC), WU-CHAI MISSILE TEST CENTER (WCMTC), AND CHING-YU MISSILE TEST CENTER (CYMTC), ARE ASSOCIATED WITH OFFENSIVE BALLISTIC MISSILE SYSTEMS. ADDITIONALLY, PRC SPACE LAUNCH FACILITIES ARE LOCATED AT SCTMTC. CHIN-HSI MISSILE TEST CENTER (CHMTC) IS THE LOCATION OF CRUISE MISSILE TEST FACILITIES. A POP-UP TEST FACILITY ASSOCIATED WITH A SUBMARINE-LAUNCHED BALLISTIC MISSILE (SLBM) DEVELOPMENT PROGRAM WAS LOCATED AT CHIN-HSI DURING EARLY DEVELOPMENT POP-UP TESTING OF THE SLBM. NO SYSTEM ASSOCIATION HAS YET BEEN MADE WITH THE TIEN-WEI MISSILE TEST CENTER (TWMTC). SUNG-LIN MISSILE TEST COMPLEX WAS FIRST IDENTIFIED IN JANUARY 1978. THE COMPLEX IS STILL UNDER CONSTRUCTION, AND NO SYSTEM ASSOCIATION HAS BEEN MADE.

IMPACT AREAS FOR THE MAJORITY OF THE BALLISTIC MISSILE SYSTEM LAUNCHES HAVE BEEN IN THE VICINITY OF MIN-FENG AND YA-ERH-TANG IN WESTERN CHINA. IN 1977, A THIRD IMPACT AREA, NEAR HSI-CHANG IN SOUTH CHINA, WAS USED FOR LAUNCHES FROM THE SHUANG-TA FIELD POSITIONS AND THE WCMTC. FULL-RANGE INTERCONTINENTAL BALLISTIC MISSILE (ICBM) FLIGHT-TEST IMPACT AREAS HAVE NOT YET BEEN IDENTIFIED. ALTHOUGH SEVERAL FACTORS INDICATE THE POSSIBILITY OF FUTURE FLIGHT-TESTING TO THE PACIFIC OCEAN, THERE ARE OTHER INDICATIONS OF A PREFERENCE FOR FULL-RANGE ICBM LAUNCHES TO THE INDIAN OCEAN. THE RECENT, TENTATIVE IDENTIFICATION OF TWO RANGE INSTRUMENTATION SHIPS BEING OUTFITTED INDICATES THE PRC'S INTENT TO SUPPORT FULL-RANGE TESTING TO THE BROAD OCEAN AREA.

SYSTEMS ASSOCIATED WITH SCTMTC FACILITIES INCLUDE THE CSS-1 MEDIUM-RANGE BALLISTIC MISSILE (MRRM), THE CSS-2 INTERMEDIATE-RANGE BALLISTIC MISSILE (IRBM), THE CSS-3 ICBM, THE CSL-1 SPACE LAUNCH VEHICLE (WHICH USES THE CSS-3 FOR THE FIRST TWO STAGES), THE CSS-X-4 ICBM, AND A SPACE LAUNCH VEHICLE (THE CSL-2), WHICH USES THE CSS-X-4 AS ITS BOOSTER. THERE ARE THREE LAUNCH POINTS FOR DIFFERENT SIZES OF SOUNDING ROCKETS; THREE R+D SURFACE-TO-AIR MISSILE (SAM) SITES, TWO OF WHICH ARE ASSOCIATED WITH THE CSA-1 AND ONE ASSOCIATED WITH THE CSA-X-2; AND FACILITIES POSSIBLY FOR HANDLING AIR-TO-AIR MISSILES (AAMS) AND AIR-TO-SURFACE MISSILES (ASMS). AT WU-CHAI A SINGLE PAD HAS BEEN USED FOR CSS-2 FLIGHT-TESTING. ONE SILO AT WU-CHAI IS FOR THE CSS-X-4. A NEW SLBM-RELATED LAUNCH FACILITY IS ADJACENT TO THIS PAD. ANOTHER POSSIBLE SILO, NOT YET SYSTEM ASSOCIATED, IS INCOMPLETE AND PRESENTLY INACTIVE. AN ADDITIONAL LAUNCH FACILITY UNDER CONSTRUCTION MAY SUPPORT A MISSILE R+D PROGRAM OR A SPACE PROGRAM. THE CYMTC CONTAINS A SILO LAUNCH FACILITY USED FOR R+D TESTING OF THE CSS-3 AND TWO POSSIBLE SILO LAUNCH POSITIONS IN THE EARLY STAGE OF CONSTRUCTION.

THIS STUDY FOLLOWS THE DEVELOPMENT OF EACH TEST CENTER AND PRESENTS A DETAILED EVALUATION OF LAUNCH FACILITIES, SUPPORT FACILITIES, INCLUDING COMMUNICATIONS FACILITIES AND NETWORKS, INSTRUMENTATION

2002
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NETWORKS AND FACILITIES, LAUNCH VEHICLE CHECKOUT AND MAINTENANCE FACILITIES, AND GENERAL SUPPORT FACILITIES ARE SIMILARLY REPORTED. IN MOST CASES, THE EXTENT AND CAPACITY OF SUPPORT FACILITIES AT EACH TEST CENTER APPEAR TO EXCEED THE REQUIREMENTS EXPECTED TO BE GENERATED BY THE CENTER'S FEW LAUNCH FACILITIES, AS EVIDENCED BY THE LOW LEVEL OF LAUNCH ACTIVITY. ALSO INCLUDED IS AN EVALUATION OF THE SSM/SPACE-TRACKING AND INSTRUMENTATION FACILITIES THAT MAY SUPPORT SEVERAL TEST CENTERS IN ONE OR MORE CAPACITIES.

DIA STDY DST1000S-267-78 25 AUG 78 [] SEC CLASS: 25 MSN: 0082P ACCN: S085276 25X1

MISSILES, BALLISTIC MISSILE SYSTEMS TRENDS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS STUDY PRESENTS AN ASSESSMENT OF SOVIET BALLISTIC MISSILE SYSTEM DEVELOPMENT TRENDS AND POTENTIAL SYSTEMS THAT MAY BE DEVELOPED WITHIN THE NEXT 10-YEAR PERIOD. THE SCOPE OF THIS STUDY IS INTENDED TO FULFILL THE REQUIREMENTS OF ESTIMATORS, PLANNERS, AND SYSTEM DESIGNERS WITHIN JCS, OSD, U+S COMMANDS AND MILITARY DEPARTMENTS.

DIA STDY DST1340S-432-78 28 AUG 78 [] SEC CLASS: 13 MSN: 0073P ACCN: S085277 25X1

AIRCRAFT, TAG B		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, TAG A		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, CHECH B		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05B	COMIREX NO:
AIRCRAFT, CHECH A		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, CHUCK D		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, CHUCK C		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, CHUCK B		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05R	COMIREX NO:
AIRCRAFT, KASP B		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -

2003
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 05B COMIREX NO:
 AIRCRAFT, KASP A UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 05B COMIREX NO:
 AIRCRAFT, WING-IN-GROUND EFFECT SYS TRENDS UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 05B COMIREX NO:

THIS STUDY WHICH IS TO BE UPDATED BIENNIALY, IS THE TREND STUDY ON THE SUBJECT OF THOSE WING-IN-GROUND EFFECT SYSTEMS (WIGS), REFERRED TO BY THE SOVIETS AS EKRANOPLANS OR EKRANOLETS, DEPENDING ON THE SYSTEM'S ALTITUDE CAPABILITY. THE OTHER TWO MAJOR CLASSES OF SURFACE EFFECT VEHICLES (AIR CUSHION VEHICLES AND HYDROFOILS) ARE TREATED IN TWO COMPLEMENTARY STUDIES, DST-1340S-042-76, SURFACE EFFECT VEHICLES (CURRENT AND PROJECTED)- ECC (U), AND ST-CS-08-14-73, HYDROFOIL CRAFT-FOREIGN COUNTRIES (U), RESPECTIVELY. THESE THREE DIA STUDIES WILL COVER THE COMPLETE SPECTRUM OF ECC SURFACE EFFECT SYSTEMS' TRENDS.

THIS STUDY FOCUSES ON THE CURRENT SOVIET DEVELOPMENTAL WIGS, THE SYSTEMS' TECHNOLOGICAL IMPLICATIONS AND FUTURE APPLICATIONS. THE DISCUSSION OF FUTURE SYSTEMS PROVIDES ESTIMATES OF VEHICLES CONSIDERED FEASIBLE, BASED ON OBSERVED INDICATORS, AND THOSE CONSIDERED PLAUSIBLE, BASED ON EXTRAPOLATION OF THE SYSTEMS' TECHNOLOGIES. THE PURPOSE IS TO PROVIDE AN ASSESSMENT OF SOVIET APPLIED RESEARCH AND DEVELOPMENT RELATIVE TO THESE SYSTEMS, POTENTIAL APPLICATIONS OF CURRENT DEVELOPMENTAL VEHICLES, AND A FORECAST OF SYSTEMS LIKELY TO BE INTRODUCED INTO OPERATIONAL INVENTORIES WITHIN THE NEXT 10 YEARS.

NPIC MEMO 28 NOV 78 SEC CLASS: 13 MSN: 0002P

ACCN: S085278 25X1
25X1

NORILSK ADZ SAM DEVELOPMENTS NEW SEARCH UR 6921 N 08821 E
 WAC NO : 0048 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:

DIA STDY DST1000S-013-78 JUL 78 SEC CLASS: 25 MSN: 0201P

ACCN: S085279 25X1

MISSILES, CSA-1 SYSTEM CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40C COMIREX NO:

THIS STUDY PRESENTS AN ALL-SOURCE ANALYSIS OF THE PEOPLE'S REPUBLIC OF CHINA ANTI-AIRCRAFT/SAM DEFENSIVE CAPABILITY. FORMERLY, THIS REPORT WAS CALLED THE CSA-1 MISSILE SYSTEM. THIS STUDY IS ORGANIZED INTO TWO PARTS. THE FIRST PART COVERS THE CSA-1 MISSILE SYSTEM DESCRIPTION AND CAPABILITIES. THE SECOND PART COVERS CSA-1 RELATED TRAINING, R+D ACTIVITIES, PRODUCTION AND STORAGE FACILITIES, AND SAM SUPPORT EQUIPMENT. CSA-1 SYSTEM ANALYSIS IS DEVELOPED PRIMARILY FROM SATELLITE PHOTINT AND ELINT DATA. SUPPORT IN PRODUCING THIS STUDY WAS PROVIDED BY THE U.S. ARMY INTELLIGENCE AND THREAT ANALYSIS CENTER, IMAGERY INTELLIGENCE GROUP.

25X1

THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS 1 MARCH 1978.
 THE CHINESE ARE STILL EXPLOITING THE SOVIET SA-2 MISSILE SYSTEM TO PROVIDE AN IMPROVED AIR DEFENSE NETWORK. THE CHINESE VERSION OF THIS SYSTEM, DESIGNATED CSA-1, CONSISTS OF THE GUIDELINE MOD 1 MISSILE.

2004
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THE GIN SLING RADAR, AND THE KNIFE REST ACQUISITION RADAR. RECENTLY, THE CHINESE HAVE DEPLOYED A SLOT REST OR ODD LOT ACQUISITION RADAR AT SOME MISSILE SITES.

THE GIN SLING TRACKING/GUIDANCE RADAR CONSISTS OF A SOVIET FAN SONG B WITH AN EXTRA CIRCULAR DISH NEAR THE MIDPOINT OF THE HORIZONTAL TROUGH. ANALYSIS INDICATES THAT THIS EXTRA DISH PERMITS THE RADAR TO OPERATE IN A SCAN-ON-RECEIVE-ONLY (SORO) MODE AND PROVIDES AN ELECTRONIC COUNTER-COUNTERMEASURE (ECCM) CAPABILITY NOT INHERENT IN THE ORIGINAL SOVIET FAN SONG B RADAR.

THE 1972-75 EFFORTS TO HARDEN SELECTED SAM SITES IN THE PRC HAVE STOPPED. ONLY TWO OF THE ORIGINAL 30 SAM SITES IN THE PROGRAM ARE COMPLETELY HARDENED (TA-CHIN-TAO SAM SITE AND NAN-CHING, C01-21).

SHEN-YANG AIRFRAME PLANT 112 HAS BEEN IDENTIFIED AS THE INSTALLATION FOR FABRICATION AND FINAL ASSEMBLY OF THE SUSTAINER AIRFRAME OF THE CHINESE CSA-1 MISSILE. SHEN-YANG AIRCRAFT ENGINE PLANT 410, A KNOWN MANUFACTURER OF AIRCRAFT ENGINES, IS BELIEVED TO BE THE PRODUCER OF THE SUSTAINER ENGINE FOR THE CHINESE SAM. THE PAO-TOU MISSILE SUPPORT EQUIPMENT AND ARTILLERY PLANT 447 HAS BEEN IDENTIFIED AS THE MANUFACTURER OF THE CSA-1 MISSILE LAUNCHER.

A CENTRAL SAM SUPPORT DEPOT AND ONE PROBABLE SAM SUPPORT SUBDEPOT WERE DISCOVERED IN 1971. THE CENTRAL DEPOT IS THE TAI-YUAN SHOU-YANG DEPOT WHICH COULD SERVE ALL OF CHINA FOR CERTAIN PIECES OF CSA-1 EQUIPMENT. THE SUBDEPOT IS THE CHIN-HUANG-TAO STORAGE AREA WHICH COULD SERVE THE PO-HAI GULF REGION IN NORTHEAST CHINA. MORE RECENTLY, SEVEN ADDITIONAL SAM STORAGE AREAS AND ONE PROBABLE SAM STORAGE AREA, HAVE BEEN DISCOVERED. THE SAM STORAGE FACILITIES ARE LOCATED AT PEI-CHING, LUNG-HSI, PAO-CHI, TO-LI, TAO-PU-CHI, CHIH-CHIN-HSIA, AND CHINA-TAO. IN ADDITION, ALL OF THE 89 OCCUPIED SAM SITES HAVE AN ON-SITE SAM SUPPORT CAPABILITY.

SHEN-YANG AIRFRAME PLANT 112, AFTER SEVERAL YEARS OF HIGH CSA-1 PRODUCTION TO FILL THE NEWLY CONSTRUCTED SAM DEPOTS, IS NOW PRODUCING VERY FEW CSA-1 MISSILES. THIS UNUSED CAPACITY AT PLANT 112 COULD BE USED TO PRODUCE A NEW SAM.

DIA STDY DST1170R-396-78

MAY 78

SEC CLASS: 25

MSN:

0027P.

ACCN: S085280

25X1

ELECTRONICS, RADAR DEPLOYMENT SA-4/6 UNIT HQ

UR

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

OVER THE PAST FEW YEARS, THE SOVIETS HAVE DRAMATICALLY UPGRADED THE AIR DEFENSES ASSOCIATED WITH THEIR GROUND FORCES. THIS UPGRADING HAS INCLUDED THE INTRODUCTION OF NEW SURFACE-TO-AIR MISSILE SYSTEMS AND MODERN COMMAND AND CONTROL CAPABILITIES. IN ADDITION, THE SOVIETS ARE CONTINUALLY DEPLOYING EITHER UPGRADED RADARS OR NEW ONES AT VARIOUS ECHELONS WITHIN THEIR GROUND FORCES. AT SA-4 BRIGADE AND SA-6 REGIMENTAL HEADQUARTERS, FOR EXAMPLE, THE SOVIETS ARE NOW DEPLOYING ADDITIONAL ACQUISITION RADARS. THIS REPORT DISCUSSES THESE ADDITIONAL RADARS AND THEIR POSSIBLE EFFECTS ON US ECM OPERATIONS. ALTHOUGH THE PRIMARY CUTOFF DATE FOR INFORMATION IN THIS DOCUMENT WAS 31 MARCH 1978, MORE RECENT MATERIAL HAS BEEN INCLUDED AS NECESSARY.

AF STDY FTU2610R-341-78

04 SEP 78

SEC CLASS: 25

MSN:

0046P

ACCN: S085281

25X1

ELECTRONICS, HF COMMUNICATIONS SYSTEM

UR

WAC NO :

BE/OBJ NO:

NPIC NO : -

2005..

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

MANY FRAGMENTARY ASPECTS OF THE PROBLEM OF UNDERSTANDING THE SOVIET UTILIZATION OF HF COMMUNICATIONS HAVE BEEN ADDRESSED BY VARIOUS WESTERN ANALYSTS. HOWEVER, THE RESULTS HAVE NEVER BEEN COMPILED TO FORM A COMPREHENSIVE PERSPECTIVE OF THE TOTAL PROBLEM. ALSO, THE PROBLEM HAS NEVER BEEN APPROACHED FROM THE VIEWPOINT OF THE SOVIETS' OWN PERCEPTION OF HF COMMUNICATION. IT IS, THEREFORE, THE PURPOSE OF THIS REPORT TO PROVIDE AN INITIAL ASSESSMENT OF THE SOVIET POSITION ON THE VALUE AND USAGE OF HF COMMUNICATIONS. THE CONCERN LIES PRIMARILY WITH SOVIET STRATEGIC MILITARY USAGE IN A NUCLEAR ENVIRONMENT, BUT BY NECESSITY THE COMPREHENSIVE SOVIET POSITION SHOULD BE UNDERSTOOD TO OBTAIN A PROPER PERSPECTIVE.

THE METHOD OF ASSESSING A SUBJECT WITH SUCH A LARGE AMOUNT OF DATA NECESSITATES A VERY BROAD APPROACH. SINCE MANY FACTORS ARE INTERDEPENDENT, IT IS VERY IMPORTANT TO DEVELOP A WIDE PERSPECTIVE OF THIS MANY-FACETED PROBLEM TO FORMULATE AN ACCURATE EVALUATION. THIS REPORT SUMMARIZES AND EVALUATES THE SOVIET PERCEPTION OF HF COMMUNICATIONS BY DRAWING FROM THE GAMUT OF DATA ON SOVIET HF COMMUNICATIONS. CARE HAS BEEN TAKEN TO PREVENT AN INUNDATION WITH DATA, REFERENCES, AND DETAILS AND TO PRESERVE A CLEAR AND COMPREHENSIVE PRESENTATION OF THIS ANALYSIS. THEREFORE, ONLY A SMALL REPRESENTATION OF AVAILABLE DATA AND REFERENCES IS HIGHLIGHTED IN SUBSTANTIATING AND EXEMPLIFYING THE STATEMENTS AND ARGUMENTS PRESENTED IN THIS REPORT. IT SHOULD BE REMEMBERED THAT THIS SHORT REPORT IS ATTEMPTING TO UNIFY VAST AMOUNTS OF DATA AND ANALYSES INTO ONE COMPREHENSIVE PERSPECTIVE.

THIS REPORT DEALS WITH THE TECHNOLOGICAL FOUNDATION OF SOVIET HF COMMUNICATIONS; THE RELIABILITY AND QUALITY OF SOVIET HF COMMUNICATIONS; THE PROBLEMS AND PERCEPTIONS OF HF PROPAGATION IN A NUCLEAR ENVIRONMENT; THE SOVIET DEPENDENCE ON HF, AND THE CONCLUSIONS.

25X1

2006
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

25X1

NPIC MEMO

23 OCT 78

SEC CLASS: 14B MSN:

0002P

ACCN: S085285

25X1
25X1

BARANOVICHI TROPOSCATTER STATION EAST

WAC NO : 0168

BE/OBJ NO:

UR 530625N 0261140E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 3-P3

ROVNO TROPOSCATTER STATION

WAC NO : 0233

BE/OBJ NO:

UR 503635N 0261100E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 49-P3

COMIREX NO:

25X1
25X1

25X1
25X1

25X1

2007
TOP SECRET CHESS RUFF

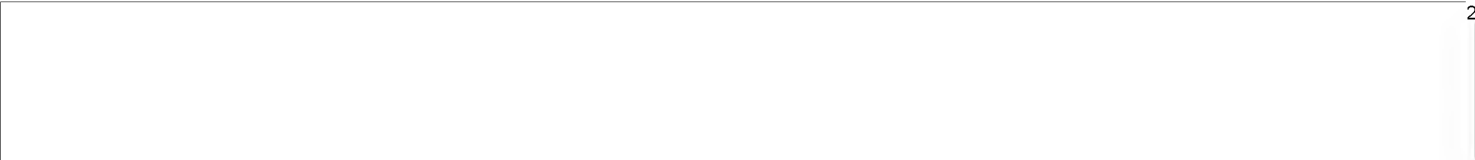
25X1




TOP SECRET CHESS RUFF



25X1
25X1



25X1

AF ENDR E1502-78 30 JUN 78  SEC CLASS: 13 MSN: 0001P ACCN: 508528 25X1)
ELECTRONICS, ANTENNAS HARD UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25 COMIREX NO:
THIS DRAWING SUPPLEMENTS PAR 78-550.*



25X1

2008
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIB BDA11-0001-78 SEP 78 SEC CLASS: 14B MSN: 0003P ACCN: 5085295 25X1

RESITA ARMS PLANT NORTH MECHANIA FINA

WAC NO : 0251

IDHS CODE:

BE/OBJ NO:

EPF CAT : 356

RO 451920N 0215120E

NPIC NO : - 94-A1

COMIREX NO:

25X1

25X1

25X1

2009
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA11-0027-77 SEP 78 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S0852925X1

LUFKIN MOTOR VEHICLE PLANT
WAC NO : 0232 BE/OBJ NO: [] PL 511442N 022364E
IDHS CODE: [] EPF CAT : 85A NPIC NO : - 92-E1
COMIREX NO: [] 25X1

NPIC BIIB BCA09-0004-78 SEP 78 [] SEC CLASS: 14D MSN: [] 0001P ACCN: S0852925X1

ANHSEN AEROSPACE PRPLN R+D FAC NO SIG CHANGE CH 314218N 1042730E
WAC NO : 0495 BE/OBJ NO: [] NPIC NO : - 116
IDHS CODE: [] EPF CAT : 40H COMIREX NO: [] 25X1

NPIC BIIB BCA09-0005-78 OCT 78 [] SEC CLASS: 14D MSN: [] 0001P ACCN: S0853025X1

HAERHPIN AIRFRAME PLANT 122 NO SIG CHANGE CH 453549N 1263925E
WAC NO : 0283 BE/OBJ NO: [] NPIC NO : - 42-P1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1

NPIC BIIB BCA09-0006-78 OCT 78 [] SEC CLASS: 14 MSN: [] 0001P ACCN: S0853025X1

HSIAN AIRFRAME PLANT YENLIANG 172 NO SIG CHNG CH 343854N 1091336E
WAC NO : 0385 BE/OBJ NO: [] NPIC NO : - 21-A
IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1

NPIC SK SR070-78 OCT 78 [] SEC CLASS: 14D MSN: [] 0003P ACCN: S0853025X1

SHIPS, HAN CLASS SSN UNDERWAY CH
WAC NO : BE/OBJ NO: [] NPIC NO : -
IDHS CODE: EPF CAT : 75D COMIREX NO: []

25X1

ARMY BIIR RAC24-5005-78 JUL 78 SEC CLASS: 05B MSN: [] 0021P ACCN: S085304

ELECTRONICS, SPOON REST D EW/ACQ RADAR UR
WAC NO : BE/OBJ NO: [] NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO: []

25X1

2010
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

DIA	BIIR	RDA11-0017-77	OCT 78		SEC CLASS: 14D	MSN:	0009P	ACCN: S085305	25X1 25X1
		CHANGHSINTIEN ARMORED VEHICLE PLANT 618			CH	394900N 1161025E			
		WAC NO : 0381		BE/OBJ NO:	NPIC NO	: - 50-J8			25X1
		IDHS CODE:		EPF CAT : 35G	COMIREX NO:				25X1
DIA	NBRG	NDA07-5191-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085306	
		YINGKOUHSIEN MILITARY AREA 1			CH	4038 N 12230 E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: -			25X1
		IDHS CODE:		EPF CAT : 35	COMIREX NO:				25X1
DIA	NBRG	NDA07-5192-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085307	
		YINGKOUHSIEN ARMY BARRACKS AL5 + HEADQUARTERS			CH	403814N 1223016E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: - 26-E1			25X1
		IDHS CODE:		EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5193-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085308	
		YINGKOUHSIEN ARMY BARRACKS AL6			CH	403800N 1222730E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: -			25X1
		IDHS CODE:		EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5194-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085309	
		YINGKOUHSIEN ARMY BARRACKS AL8			CH	403830N 1223100E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: - 26-E2			25X1
		IDHS CODE:		EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5195-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085310	
		YINGKOUHSIEN ARMY BARRACKS AL3			CH	403739N 1223301E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: - 26-B			25X1
		IDHS CODE:		EPF CAT : 35A	COMIREX NO:				25X1
DIA	NBRG	NDA07-5196-78	24 OCT 78		SEC CLASS: 05G	MSN:	0001P	ACCN: S085311	
		KAIHSIEN MILITARY AREA 1			CH	4024 N 12220 E			
		WAC NO : 0289		BE/OBJ NO:	NPIC NO	: -			25X1
		IDHS CODE:		EPF CAT : 35	COMIREX NO:				25X1

2011

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA	NBRG	NDA07-5197-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085312
		KAIHSIEN ARMY BARRACKS AL1 + HQ INFANTRY DIV		CH	402435N 1222115E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -	26-C1		25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5198-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085313
		YINGKOUHSIEN ARMY BARRACKS WEST AL2		CH	403756N 1222814E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -	26-B2		25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5199-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085314
		MAOCHITUN ARMY BARRACKS AL1		CH	404516N 1223704E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -	26-F		25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5200-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085315
		KAIHSIEN ARMY BARRACKS NW		CH	402552N 1221959E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -	26-C2		25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5201-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085316
		YINGKOUHSIEN ARMY BARRACKS SE AL1		CH	403724N 1223120E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -	26-B1		25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5202-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085317
		YINGKOUHSIEN ARMY BARRACKS AL7		CH	403415N 1223100E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -			25X1
		IDHS CODE:	EPF CAT : 35A	COMIREX NO:			25X1
DIA	NBRG	NDA07-5203-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085318
		HAICHENG MILITARY AREA 1		CH	4052 N 12245 E		
		WAC NO : 0289	BE/OBJ NO:	NPIC NO : -			25X1
		IDHS CODE:	EPF CAT : 35	COMIREX NO:			25X1
DIA	NBRG	NDA07-5204-78	24 OCT 78	SEC CLASS: 05G	MSN:	0001P	ACCN: S085319

2012
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	HAICHENG ARMY BARRACKS NE AL1 + HQ INF DIV	CH 405141N 1224500E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 35-A	
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5205-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085320
	HAICHENG ARMY BARRACKS NORTH AL3	CH 405240N 1224430E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 35-A2	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5206-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085321
	HAICHENG ARMY BARRACKS SOUTH AL5	CH 404750N 1224517E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 35-A3	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5207-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085322
	HAICHENG ARMY BARRACKS SW AL6	CH 404805N 1224051E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 35-A4	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5208-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085323
	HAICHENG ARMY BARRACKS EAST AL2	CH 405057N 1224552E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 35-A1	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5209-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085324
	SHIHSHAN MILITARY AREA 1	CH 4114 N 12132 E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : -	25X1
	IDHS CODE: [] EPF CAT : 35	COMIREX NO:	25X1
DIA	NBRG NDA07-5210-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085325
	SHIHSHAN ARMY BARRACKS AL1 + HQ INFANTRY DIV	CH 411717N 1213401E	
	WAC NO : 0289 BE/OBJ NO: []	NPIC NO : - 42-D	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5211-78 24 OCT 78	SEC CLASS: 05G MSN:	0001P ACCN: S085326

2013
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SHIHSHAN ARMY BARRACKS SW AL2

WAC NO : 0289

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 411512N 1212844E

NPIC NO : - 42-F

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5212-78 24 OCT 78

SEC CLASS: 05G MSN:

0001P

ACCN: S085327

LUYANG ARMY BARRACKS SW AL2

WAC NO : 0289

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 412040N 1213511E

NPIC NO : - 42-C

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5213-78 24 OCT 78

SEC CLASS: 05G MSN:

0001P

ACCN: S085328

LUYANG ARMY BARRACKS NW AL1

WAC NO : 0289

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 412338N 1213807E

NPIC NO : - 42-B

COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5214-78 24 OCT 78

SEC CLASS: 05G MSN:

0001P

ACCN: S085329

SHIHSHAN ARMY BARRACKS SW AL3

WAC NO : 0289

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 411423N 1213013E

NPIC NO : - 42-F

COMIREX NO:

25X1
25X1

25X1

2014
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

DIA IIM 563-59795-78 12 OCT 78 [] SEC CLASS: 13 MSN: 0001P ACCN: 50853525X1

UGLOVOYE AIRFIELD NW AIRCRAFT BUNKERS UR 432058N 1320336E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 43
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 561-59808-78 OCT 78 [] SEC CLASS: 14B MSN: [] 0004P ACCN: 50853525X1

BACAU AMMUNITION DUMP SW 513 RO 463324N 0265238E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : - 6-C1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

25X1

DIA IIM 561-59810-78 OCT 78 [] SEC CLASS: 14B MSN: [] 0003P ACCN: 50853525X1

BACESTI AMMUNITION DEPOT NE RO 464828N 0271609E
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 30-A
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

25X1

25X1

DIA IIM 561-59830-78 OCT 78 [] SEC CLASS: 14B MSN: [] 0004P ACCN: 50853525X1

BRETCU AMMUNITION DEPOT SW1 RO 460334N 0261806E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : - 213
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

25X1

25X1

2020
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 59-L1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []
DIA IIM 5B1-59752-78 13 OCT 78 [] SEC CLASS: 14B MSN: [] 0004P ACCN: S085360

25X1
25X1
25X1

BACAU AMMUNITION DEPOT ITESI 511
WAC NO : 0251 BE/OBJ NO: [] RO 463943N 0265322E
IDHS CODE: [] EPF CAT : 35F NPIC NO : - 6-B
COMIREX NO: []

25X1
25X1
25X1

DIA IIM 5B3-59743-78 12 OCT 78 [] SEC CLASS: 13 MSN: [] 0003P ACCN: S085362
CHERNIGOVKA AIRFIELD AIRCRAFT BUNKERS
WAC NO : 0282 BE/OBJ NO: [] UR 441911N 1323246E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 7-B
COMIREX NO: []

25X1
25X1
25X1
25X1

DIA IIM 5B3-59754-78 12 OCT 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085364
SUMBER SUMA AIRFIELD AIRCRAFT BUNKERS
WAC NO : 0285 BE/OBJ NO: [] MG 463455N 1081916E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 14
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-59790-78 12 OCT 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085365
SMIRNYKH AIRFIELD AIRCRAFT BUNKERS
WAC NO : 0205 BE/OBJ NO: [] UR 494415N 1425148E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 11-H
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-59811-78 12 OCT 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085366
PETROPVLOVSK/YELIZOVO AIRFIELD AIRCRAFT BUNKERS
WAC NO : 0194 BE/OBJ NO: [] UR 530957N 1582713E
NPIC NO : - 11-A

25X1

2021
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
DIA IIM 5B3-59812-78 12 OCT 78 [] SEC CLASS: 13 MSN: 0001P ACCN: S08536725X1
BAYAN SUMA AIRFIELD AIRCRAFT BUNKERS MG 472200N 1072721E
WAC NO : 0285 BE/OBJ NO: [] NPIC NO : - 12-A 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1 ()

DIA IIM 5B3-59829-78 17 OCT 78 [] SEC CLASS: 13 MSN: 0001P ACCN: S08536725X1
UNASHI AIRFIELD AIRCRAFT BUNKERS UR 425729N 1330701E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 44 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM 5B3-59835-78 13 OCT 78 [] SEC CLASS: 13 MSN: 0001P ACCN: S08537125X1
VERINO AIRFIELD AIRCRAFT BUNKERS UR 475949N 1350516E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 200-B 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM 5B3-59842-78 17 OCT 78 [] SEC CLASS: 24 MSN: 0003P ACCN: S08537125X1
ORSHA AIRFIELD SW BADGER TU-16 O/B UR 542622N 0301747E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 66 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
BOBRUYSK AIRFIELD BADGER TU-16 O/B UR 530610N 0291230E
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 11 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1 ()

25X1

2022
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
23A1

DIA IIM 5B3-59848-78 17 OCT 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085373 25X1
 AYTAM AIRFIELD NEW
 WAC NO : 0327 BE/OBJ NO: UR 420458N 0632712E
 IDHS CODE: [] EPF CAT : 05A NPIC NO : -
 COMIREX NO: [] 25X1

DIA IIM 5B3-59849-78 17 OCT 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085374 25X1
 SANDAGOU AIRFIELD AIRCRAFT BUNKERS U/C
 WAC NO : 0282 BE/OBJ NO: [] UR 440500N 1335203E
 IDHS CODE: [] EPF CAT : 05A NPIC NO : - 43
 COMIREX NO: [] 25X1

DIA IIM 5B3-59864-78 18 OCT 78 [] SEC CLASS: 13 MSN: [] 0002P ACCN: S085375 25X1
 DELAYA AIRFIELD BADGER TU-16
 WAC NO : 0200 BE/OBJ NO: [] UR 525454N 1033434E
 IDHS CODE: [] EPF CAT : 05A NPIC NO : -
 COMIREX NO: [] 25X1

AF PAR 659-78 17 AUG 78 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S085376 25X1
 HEIHQ SSM FACILITIES + GSE SEARCH
 WAC NO : 0437 BE/OBJ NO: [] CH 3130 N 09200 E
 IDHS CODE: [] EPF CAT : 40 NPIC NO : -
 COMIREX NO: []

A PHOTOGRAPHIC SEARCH OF A 50 NM RADIUS AREA CENTERED ON COORDINATES 3130N/09200E TO IDENTIFY
 MISSILE-RELATED GROUND SUPPORT EQUIPMENT/FACILITIES IN THE TIBETAN HIGHLANDS IN SOUTHWEST CHINA PRODUCED
 NEGATIVE RESULTS.*

AF PAR 669-78 06 SEP 78 [] SEC CLASS: 13 MSN: [] 0005P ACCN: S085377 25X1
 MISSILES, SSM DEPLOYMENT EVALUATION
 WAC NO : [] BE/OBJ NO: [] CH
 IDHS CODE: [] EPF CAT : 40 NPIC NO : -
 COMIREX NO: []

THIS REPORT REFERENCES PARS 72-812, 72-661 AND DRAWING 72E6548. SSM LAUNCH FACILITIES WERE ANALYZED TO
 DETERMINE THE NUMBER OF CHECKOUT BUILDINGS, CHOWHALLS, GARAGES (INCLUDING THE NUMBER OF BAYS), BARRACKS,
 GSE CAVES AND DEFENDENT STRUCTURES. RESULTS ARE PRESENTED IN TABULAR FORMAT.*

AF PAR 647-78 08 AUG 78 [] SEC CLASS: 13 MSN: [] 0003P ACCN: S085378 25X1
 VLADIMIR SRF ARMY HQ RADCOM XMTR STA RKR HARD UR 561351N 0400551E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 156 25X1

2023

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

THIS REPORT IS A PHOTO ANALYSIS OF THE VLADIMIR SRF ARMY TRANSMITTER FACILITY. DIMENSIONAL ANALYSES OF THE COMMUNICATIONS ANTENNAS ARE GIVEN IN TABULAR FORM.*

AF PAR 643-78 31 JUL 78 SEC CLASS: 13 MSN: 0002P

ACCN: S0853725X1

KULUKOSHANMO IMPACT AREA CSS-X-4 CRATERS SRCH CH 4137 N 08920 E
WAC NO : 0330 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

A PHOTOGRAPHIC SEARCH OF THE KU-LU-KO IMPACT AREA FOR CRATERS RESULTING FROM THE IMPACT OF TWO CSS-X-4 REENTRY VEHICLES PRODUCED NEGATIVE RESULTS.*

AF PAR 639-78 03 AUG 78 SEC CLASS: 13 MSN: 0003P

ACCN: S0853825X1

TYURATAM MTC SPACE SITE B1 CONST ACT UNIQUE UR 455950N 0633348E
WAC NO : 0246 BE/OBJ NO: NPIC NO : - 6-J
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, SITES NON-MAGNETIC TEST FACS NFW SRCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

A SEARCH OF SL-6 AND SL-8 ASSOCIATED INSTALLATIONS AT THE PLESETSK AND TYURATAM TEST RANGES FOR RECENTLY CONSTRUCTED FACILITIES OR AN ADDITION TO EXISTING STRUCTURES THAT COULD PERFORM NON-MAGNETIC TESTING OF SPACE PAYLOADS REVEALED UNUSUAL OR UNIQUE CONSTRUCTION ACTIVITY ONLY AT TYURATAM SPACE LAUNCH SITE B1. THIS ACTIVITY CONSISTED OF A MOAT-LIKE EXCAVATION ON THE SOUTHWEST SIDE OF THE RELOCATED RAIL SPUR IN THE SUPPORT AREA. THE KEY SIGNATURE WAS THE LOCATION OF FACILITIES/STRUCTURES AT OR NEAR AN EXISTING SPACECRAFT CHECKOUT AND ASSFMBLY BUILDING.*

25X1

2024
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF PAR 640-78 01 AUG 78 [] SEC CLASS: 13 MSN: 0004P ACCN: S085382 25X1
 MOSKVA GUIDED MISSILE R+D/PROD PLT KHTMKI 293 UR 555444N 0372701E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 48-B1 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS REPORT, TOGETHER WITH DRAWINGS 72C6516/6 AND 70C3501/6, GIVES AN UPDATED ANALYSIS OF MOSKVA KHTMKI PLANT 293 SINCE MAY 1977 (PAR 77-602). IT CONTAINS TABULAR LISTINGS OF PHOTO MISSIONS, QUALITY OF IMAGERY, AND CHRONOLOGICAL GROWTH INFORMATION. DESCRIPTIONS OF BUILDING SUBSECTIONS, GIVING TOTAL ROOF COVER AND FLOORSPACE, YEAR OF COMPLETION AND OTHER PERTINENT INFORMATION ARE INCLUDED. THERE WERE NO AIRCRAFT ASSEMBLIES AND SUBASSEMBLIES, COMPONENTS, OR SHIPPING CRATES OBSERVED BETWEEN MAY 1977 AND MAY 1978.*

AF PAR 622-78 12 SEP 78 [] SEC CLASS: 13 MSN: 0008P ACCN: S085383 25X1
 KUZNETSOVO AIRCRAFT ENGINE TEST FAC PROB U/C UR 553226N 0382941E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 215-A 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

THE KUZNETSOVO PROBABLE AIRCRAFT ENGINE TEST FACILITY IS LOCATED APPROXIMATELY 5 NAUTICAL MILES NORTH OF THE FAUSTOVO AEROSPACE RESEARCH AND DEVELOPMENT FACILITY, APPROXIMATELY 2.5 NAUTICAL MILES WEST OF KUZNETSOVO UNIDENTIFIED INSTALLATION, AND APPROXIMATELY 5 NAUTICAL MILES NORTHEAST OF THE TOWN OF KUZNETSOVO. ELECTRICAL POWER IS SUPPLIED FROM A SUBSTATION LOCATED APPROXIMATELY 3 NAUTICAL MILES NORTHEAST OF THE FACILITY. RAIL SERVICE AND THE MAIN ACCESS ROAD TO THIS FACILITY ARE FROM THE SOUTH AND PASS THROUGH THE WESTERNMOST EDGE OF THE FAUSTOVO AEROSPACE RESEARCH AND DEVELOPMENT FACILITY ON THEIR WAY TO THE KUZNETSOVO FACILITIES.

NO LARGE SCALE STEREO IMAGERY OF THE KUZNETSOVO PROBABLE AIRCRAFT ENGINE TEST FACILITY WAS AVAILABLE FOR THIS ANALYSIS. ALL HEIGHTS CITED IN THIS REPORT ARE APPROXIMATE. WHEN LAST OBSERVED IN MARCH 1978, THE FACILITY WAS STILL UNDER CONSTRUCTION AND COVERED AN AREA APPROXIMATELY 7,000 METERS BY 7,000 METERS. AT THAT TIME, THE FACILITY CONTAINED A LARGE PROBABLE AIRCRAFT ENGINE TEST CELL BUILDING, A LARGE INDUSTRIAL-TYPE BUILDING, A POSSIBLE CONTROL BUILDING, A SUBSTATION, A STEAMPLANT WITH ITS FUEL STORAGE FACILITY, A TRANSSHIPMENT BUILDING, AND TEN OTHER BUILDINGS. A RAIL-SERVED POL STORAGE AREA IS LOCATED APPROXIMATELY 0.5 NAUTICAL MILES SOUTHWEST OF THE FACILITY AND A 3-SIDING RAIL YARD IS LOCATED JUST NORTH OF THE POL STORAGE AREA. IN THIS REPORT A DETAILED DISCUSSION OF THE FACILITY IS GIVEN FIRST, FOLLOWED BY A DISCUSSION OF THE POL STORAGE AREA AND RAIL YARD. FINALLY, A GENERAL CHRONOLOGY IS GIVEN.

ANNOTATIONS ARE KEYED TO DRAWING 78D6528.

AF PAR 646-78 07 AUG 78 [] SEC CLASS: 13 MSN: 0004P ACCN: S085384 25X1
 MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSAGI 156 UR 554542N 0374034E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 96-D 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

2025
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT AND DRAWING 70C6589/6 PROVIDES AN UPDATED ANALYSIS OF MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSAGI 156. IT INCLUDES A TABULATED LISTING OF THE MISSIONS WHICH COVERED THE FACILITY SINCE PAR 76-616, REFLECTS CHANGES IN ROOF COVERAGE AND FLOORSPACE, AND EVALUATES PHOTOGRAPHY. THIS REPORT SUPERSEDES PAR 77-580.*

AF PAR 644-78 03 AUG 78 [] SEC CLASS: 13 MSN: [] 0004P ACCN: 50853825X1

LYUBERTSY HELICOPTER EXPERIMENTAL PLANT KAMOV UR 554154N 0375242E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 94-A4
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

THIS REPORT UPDATES PAR 77-656 AND IS SUPPLEMENTED BY DRAWING 77C6527/1. THESE PROVIDE INFORMATION ON CHANGES IN PHYSICAL FACILITY RESOURCES, NEW CONSTRUCTION, BUILDING EXPANSION, CHANGES IN BOUNDARIES, AND A DESCRIPTION AND LOCATION OF HARDWARE OBSERVED WITHIN LYUBERTSY EXPERIMENTAL HELICOPTER PLANT KAMOV. THE REPORTING PERIOD WAS JULY 1977-MAY 1978 AND THE LATEST IMAGERY USED WAS FROM []

25X1

AF PAR 550-78 18 JUL 78 [] SEC CLASS: 13 MSN: [] 0009P ACCN: 50853825X1

ELECTRONICS, ANTENNAS HARDENED ICBM ASSOC UR
WAC NO : BE/OBJ NO: [] NPIC NO : -
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT IS A DESCRIPTIVE ANALYSIS OF BURIED HARDENED ANTENNA STRUCTURES ASSOCIATED WITH THE FOLLOWING ICBM FACILITIES: III-D, III-E, III-F, III-G, III-H AND III-X. IT DESCRIBES 6 TYPES OF BURIED PHASE II HARDENED ANTENNAS WHICH WERE FIRST DEPLOYED ON OCTOBER 1973. ANALYSIS OF A MAST ANTENNA IS ALSO INCLUDED DUE TO ITS APPARENT HIGH ROLE IN SOVIET COMMUNICATIONS AS EVIDENCED BY ITS EXTENSIVE UTILIZATION. THE 6 BURIED HARDENED ANTENNAS INCLUDE THE BI-GRID, DOME, HOOK, PLUS, LINEAR AND WASHER. THE MAST ANTENNA INCLUDES THE MAST WITH YAGI ELEMENTS AND THE PE-EL-02.

THIS DOCUMENT IS SUPPLEMENTED BY DRAWINGS 781502 AND 77E1509/1 AND PARS 74-553, 76-694, 77-615, 78-540 AND 78-551.*

AF PAR 642-78 31 JUL 78 [] SEC CLASS: 13 MSN: [] 0003P ACCN: 50853825X1

ZAPOROZHYE AIRCRAFT ENGINE PLANT 478 NSGN BUR UR 474928N 0351147E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 47-E
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

THIS REPORT WITH DRAWING 69C4532/2 AND DRAWING 71D6530/7 PROVIDES AN UPDATED PHOTO ANALYSIS OF ZAPOROZHYE AIRCRAFT ENGINE PLANT 478 LOTAREV OKB. IT INCLUDES A TABLE WHICH GIVES A CHRONOLOGY OF PHOTOGRAPHIC COVERAGE AND FACILITY GROWTH SINCE PAR 77-709. PARS 70-700, 76-580 AND 77-709 ARE UPDATED BY THIS REPORT.*

AF PAR 633-78 03 AUG 78 [] SEC CLASS: 13 MSN: [] 0003P ACCN: 50853825X1

2026
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

IVANKOVO ELECTRONICS R+D, FAC WIND TUNNEL SUSP UR 564350N 0370600E
 WAC NO : 0154 BE/OBJ NO: NPIC NO : - 18-E1
 IDHS CODE: EPF CAT : 25E COMIREX NO:

THIS REPORT AND DRAWING 78C4518 PROVIDE A DETAILED ANALYSIS OF A BUILDING SUSPECTED TO BE A SUBSONIC WIND TUNNEL LOCATED IN AREA A OF THE IVANKOVO PROBABLE ELECTRONICS R+D FACILITY.*

AF PAR 641-78 03 AUG 78 SEC CLASS: 13 MSN: 0003P

ACCN: 5085389

MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N1
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N1
 IDHS CODE: EPF CAT : 056 COMIREX NO:

THIS REPORT IS AN UPDATED ANALYSIS OF MOSKVA MILITARY DESIGN BUREAU AND EXPERIMENTAL FACILITY TOMILINO. IT REPORTS ON FACILITY GROWTH AND IDENTIFIES AND DESCRIBES BOUNDARY CHANGES AND HARDWARE ITEMS. ALL APPLICABLE KEYHOLE IMAGERY FROM OCTOBER 1976-MAY 1978 WAS USED. THE REPORT UPDATES THE ANALYSIS SECTION OF PAR 77-613 AND IS SUPPLEMENTED BY DRAWING 76C6506/2.*

AF PAR 634-78 01 AUG 78 SEC CLASS: 13 MSN: 0008P

ACCN: 5085391

MISSILES, CSS-2 MOBILE LIGHTNING ARRESTER CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40H COMIREX NO:

2027
 TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

MISSILES, CSS-2 CONTROL/ALIGNMENT VAN	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
NUCLEAR, CSS-1/CSS-2 WARHEAD VAN	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-1 TRANSPORTER/ERECTOR	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2 TRANSPORTER/ERECTOR 1	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-3 SECOND STAGE TRANSPORTER	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, TRANSPORTER ROAD TYPE G	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER 2	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER 2	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-1 TRANSPORTER	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1	CH
WAC NO :	NPIC NO : -
IDHS CODE :	COMIREX NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1	CH

2028
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE 0		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, SSM GROUND SUPPORT EQUIPMENT		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40I	COMIREX NO:

THIS REPORT AND ASSOCIATED DRAWING 72E1510/5 UPDATE PARS 77-501 AND 75-616, AND DRAWING 72E1510/4. INSET NUMBERS REFERENCED RELATE TO THE ASSOCIATED DRAWING. CHINESE SSM ASSOCIATED EQUIPMENT IS PRESENTED BY-FUNCTIONAL BREAKDOWN AND SYSTEM BREAKDOWN.*

AF PAR 662-78 29 AUG 78 SEC CLASS: 13 MSN: 0003P

ACCN: S085392 25X1

UFA PETROLEUM RFY NOVO CHERNIKOVSK WASTE PITS

UR 545552N 0560355E

WAC NO : 0165

BE/OBJ NO:

NPIC NO : - 30-B2

IDHS CODE:

EPF CAT : 30B

COMIREX NO:

TAIYUAN THERMAL POWER PLANT 2

CH 375516N 1123228E

25X1

25X1.1

2029

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0382 BE/OBJ NO: NPIC NO : - 12-K1
IDHS CODE: EPF CAT : 30E COMIREX NO:
MOSKVA PETROLEUM REFINERY LYUBERTSY IR SOURCE UR 553925N 0374805E
WAC NO : 0167 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30H COMIREX NO:
DNEPROPETROVSK INDUSTRIAL WASTE DISPOSAL PITS UR 482920N 0345910E
WAC NO : 0234 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30 COMIREX NO:
PHOTO, INFRARED SOURCE CORRELATIONS CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 65 COMIREX NO:
PHOTO, INFRARED SOURCE CORRELATIONS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 65 COMIREX NO:
FANGSHAN PETROLEUM RFY WASTE DISPOSAL PITS CH 394453N 1155542E
WAC NO : 0382 BE/OBJ NO: NPIC NO : - 51-A1
IDHS CODE: EPF CAT : 30B COMIREX NO:
PERM PETROLEUM REFINERY GAS BURNOFF POINTS UR 575436N 0560800E
WAC NO : 0156 BE/OBJ NO: NPIC NO : - 16-F
IDHS CODE: EPF CAT : 30B COMIREX NO:
UFA CHEMICAL PLANT GAS BURNOFF POINT UR 545040N 0560624E
WAC NO : 0165 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30F COMIREX NO:
KAZAN PETROLEUM PROD STGE WEST 1 IR SOURCE UR 554848N 0490200E
WAC NO : 0165 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 80A COMIREX NO:
KAZAN HEAT + POWER PLANT 3 GAS BURNOFF POINT UR 555204N 0485708E
WAC NO : 0165 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30E COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

SEVEN LOCATIONS IN THE USSR AND CHINA WERE SEARCHED ON SATELLITE IMAGERY IN ORDER TO IDENTIFY AND CORRELATE SOURCES OF CONTINUOUS, OR LONG DURATION, INFRARED RADIATION. ONLY HIGH INTENSITY SOURCES, SUCH AS A LARGE OPEN FLAME, WERE CONSIDERED.
THE RESULTS OF THE SEARCHES ARE PRESENTED IN THIS REPORT.*

AF PAR 661-78 29 AUG 78 SEC CLASS: 13 MSN: 0002P ACCN: S08539:25X1

PAVLOGRAD SOLID MTR TEST FACIL SS-17/18 LAD UR 482605N 0355817E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-C3
IDHS CODE: EPF CAT : 40E COMIREX NO:
PAVLOGRAD SOLID MTR TEST FACIL SS-17/18 LAD UR 482605N 0355817E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 30-C3
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

25X1

25X1

25X1

2030
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
ZSAI

THIS REPORT PROVIDES A COMPARISON OF THE SS-17 AND SS-18 LAUNCH ASSIST DEVICES (LADS) FOUND AT PAVLOGRAD SOLID MOTOR TEST FACILITY SINCE JANUARY 1976, AND THOSE LADS KNOWN TO BE ASSOCIATED WITH THESE TWO SYSTEMS.

DRAWING 72D6531 AND REPORT RFB22/0004/76 SUPPLEMENT THIS REPORT.*

AF PAR 658-78 29 AUG 78 SEC CLASS: 13 MSN: 0004P ACCN: 5085396 25X1

AIRCRAFT, FISHPOT B/C SU-9/11 ARMAMENT SRCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

IN AN ATTEMPT TO DETECT EVIDENCE OF ARMAMENT ASSOCIATED WITH FISHPOT AIRCRAFT, ALL FISHPOT DEPLOYMENT BASES WERE REVIEWED. THE RESULTS OF THIS REVIEW PROVIDED NO EVIDENCE OF A GUN ASSOCIATED WITH FISHPOT AIRCRAFT.*

25X1

AF ENDR E1510-5-72 14 JUL 78 SEC CLASS: 13 MSN: 0001P ACCN: 5085396 25X1

SPACE, CSS-X-4/CSL-2 PAYLOAD TRANSPORTER CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, CSS-X-4/CSL-2 PAYLOAD TRANSPORTER CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40H COMIREX NO:
MISSILES, CSS-2 CHECKOUT SUPPORT VEHICLE POSS CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40R COMIREX NO:
MISSILES, CSS-1 LAUNCH STAND TRAILER CH
WAC NO : BE/OBJ NO: NPIC NO : -

2031
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, CSS-1 LAUNCH STAND TRUCK		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MISSILES, CSS-1/CSS-2 CRANE TRUCK MOUNTED		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MISSILES, CSS-1 A-FRAME CRANE		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MISSILES, CSS-2 LAUNCH STAND TRANSPORTER		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MISSILES, SSM GANTRY CRANE		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, CSS-1/CSS-2 CHERRY PICKER		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, SRBM TRANSPORTER/ERECTOR TYPE C		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
MISSILES, CSS-X-4 2ND STAGE TRANSPORTER F		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, CSS-X-4 1ST STAGE TRANSPORTER E		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40A	COMIREX NO:
MISSILES, TRANSPORTER ROAD TYPE B		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE M		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, CSS-2 PROPELLANT VEHICLE 1 TYPE K		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MISSILES, CRYOGEN TRAILER TYPE F		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE N		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:

2032
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MISSILES, CSS-2 PROPELLANT VEHICLE 2 TYPE L	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-1/SRBM FUEL TRANSPORTER TYPE E	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE D	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE C	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE B	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE A	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-X-4 2ND STAGE TRANSPORTER C2	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-X-4 2ND STAGE TRANSFER CAR B3	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-X-4 1ST STAGE TRANSFER CAR B2	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, TRANSPORTER RAIL TYPE E	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, TRANSPORTER RAIL TYPE D	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-X-4 1ST STAGE TRANSPORTER C1	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-1/CSS-2 TRANSFER RAIL CAR B1	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, CSS-1/CSS-2 TRANSPORTER RAIL TYPE A	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE M	CH

2033
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE L		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE J		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE I		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE H		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE G		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE N		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE C2		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE K		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE F		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE D		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE C1		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE B		CH
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 40I	COMIREX NO:
MISSILES, CSS-1 TRANSPORTER/ERECTOR		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
NUCLEAR, CSS-1/CSS-2 WARHEAD VAN		CH
WAC NO :	BE/OBJ NO:	NPIC NO :

2034
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

MISSILES, CSS-3 SECOND STAGE TRANSPORTER	EPF CAT : 55D	COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-2 TRANSPORTER/ERECTOR 1		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, TRANSPORTER ROAD TYPE 6		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40I	NPIC NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-1 TRANSPORTER		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, CSS-2/CSS-3 TRANSPORTER		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40A	NPIC NO :
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2		COMIREX NO:
WAC NO :	BE/OBJ NO:	CH
IDHS CODE:	EPF CAT : 40B	NPIC NO :

2035

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, PROPELLANT VEHICLE TYPE O
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40I COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, SSM GROUND SUPPORT EQUIPMENT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40I COMIREX NO:
MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, PROPELLANT RAIL CAR TYPE A
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40I COMIREX NO:
MISSILES, CSS-2 MOBILE LIGHTNING ARRESTER
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, CSS-2 CONTROL/ALIGNMENT VAN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 75-616, 77-501, AND 78-634.*

AF PAR 613-78 01 SEP 78 SEC CLASS: 13 MSN: 0008P

ACCN: S08539A 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 5 UR 553238N 0380710E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-D5
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED ANALYSIS OF THE MYASISHCHEV PORTION OF THE RAMENSKOYE FLIGHT TEST CENTER. IT

2036
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
20A1

IS BASED ON APPLICABLE KEYHOLE MISSIONS FROM JULY 1961 TO MAY 1978. IT UPDATES PAR 77-630 AND IS
SUPPLEMENTED BY FTD DRAWINGS 70D6594, 71D4507 AND 73D6511/2.*

AF PAR 610-78 06 SEP 78 SEC CLASS: 13 MSN: 0005P

ACCN: 5085399 25X1

MISSILES, ICBM SITES DEPLOYED BLDGS ASSOC UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS REPORT IS AN ANALYSIS OF STRUCTURES ASSOCIATED WITH DEPLOYED ICBM LAUNCH SITES AND THE TYPE IIIX
LAUNCH CONTROL FACILITIES.

THE INSET NUMBERS REFERENCED IN THIS REPORT ARE KEYED TO DRAWING 74E1505/1 ENTITLED TYPE IIID (SS-11)
LAUNCH SITE MODERNIZATION, AND PAR 76-602 AND ITS ASSOCIATED DRAWING 76C1512 ENTITLED NEW SECURITY
BUILDING AT ICBM LAUNCH SITES.*

25X1

2037
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 677-78 18 SEP 78 SEC CLASS: 13 MSN: 0006P ACCN: S0854025X1

KUNMING SSM FIELD POSITION

WAC NO : 0496
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40

CH 245208N 1025347E
NPIC NO : - 4-B1
COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES DETAILS OF THE PHYSICAL EXPANSION OF THE KUN-MING SSM FIELD POSITION AND SYNOPSISIZES THE CHRONOLOGICAL OBSERVATIONS OF SSM-RELATED ACTIVITY AT THE FACILITIES.
THIS REPORT IS KEYED TO DRAWING 78B4522 AND UPDATES PAR 77-564.*

AF PAR 653-78 07 SEP 78 SEC CLASS: 13 MSN: 0009P ACCN: S0854025X1

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 165

WAC NO : 0167
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05G

UR 554935N 0373935E
NPIC NO : - 45-B5
COMIREX NO:

25X1
25X1

THIS REPORT ON THE MOSKVA EXPERIMENTAL ENGINE PLANT 165 PROVIDES DETAILS ON NEW CONSTRUCTION AND BUILDING EXPANSION; BOUNDARY CHANGES AND SUPPORT FACILITIES OF THE COMPLEX; AND A DESCRIPTION AND LOCATION OF HARDWARE OBSERVED WITHIN THE COMPLEX. THIS REPORT SUPERSEDES PARS 76-561 AND 77-614. DRAWING NUMBER 78C6534 SUPERSEDES DRAWINGS 71C6520/5 AND 70B4501/2.*

AF PAR 660-78 01 SEP 78 SEC CLASS: 13 MSN: 0005P ACCN: S08540425X1

SHUANGCHENG TZU MTC IRBM SITE B1/2 TRENCHING

WAC NO : 0287
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40A

CH 411828N 1001854E
NPIC NO : - 1-N
COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF TRENCHING ACTIVITY WITHIN THE SCT LAUNCH TEST SITE B1/2 FACILITY. IT PROVIDES SPECIFIC INFORMATION ON NEW TRENCHING FACILITIES/ARFAS/BUILDINGS CONNECTED BY NEW TRENCHING; WHETHER OBSERVED ACTIVITY REPRESENTS NEW TRENCHING OR OPENING OF PREEXISTENT TRENCHES; TYPE OF TRENCHES; DATES WHEN NEW TRENCHING WAS FIRST OBSERVED; ASSOCIATED MATERIALS SUCH AS PIPE, CABLE REELS, ETC. WITHIN THE AREA; NEW BUILDING CONSTRUCTION REQUIRING UTILITY LINES; AND CURRENT STATUS OF TRENCH LINES. DRAWING 78D6537 SUPPLEMENTS THIS REPORT.*

AF PAR 674-78 18 SEP 78 SEC CLASS: 13 MSN: 0002P ACCN: S08540525X1

MOSKVA MISSILE DESIGN BUREAU

WAC NO : 0167
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40E

UR 554415N 0373700E
NPIC NO : -
COMIREX NO:

25X1
25X1

THIS REPORT, TOGETHER WITH DRAWING 78B6539, PROVIDES AN ANALYSIS OF THE NEW DESIGN BUREAU, MOSKVA MISSILE DESIGN BUREAU (OKB-16). DIMENSIONS, ROOF COVERAGE, FLOORSPACE, AND IDENTIFICATION OF BUILDING FUNCTION ARE PROVIDED.*

2038
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF PAR 667-78 06 SEP 78 SEC CLASS: 13 MSN: 0005P ACCN: S085407 25X1

CHITA SRF ARMY HQ RADIO COMMO XMTR HARD ANTS UR 520324N 1601137E
 WAC NO : 0199 HE/OBJ NO: NPIC NO : - 2-U1
 IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

THIS REPORT SUPERSEDES PAR 75-539 AND UPDATES PARAGRAPH 2B OF PAR 78-535.
 A CONSTRUCTION CHRONOLOGY, ANTENNA AZIMUTHS AND MEASUREMENTS, AND OTHER DETAILS ARE PROVIDED FOR CHITA.
 SRF ARMY HEADQUARTERS RADCOM TRANSMITTER/HARD.*

AF PAR 656-78 06 SEP 78 SEC CLASS: 14 MSN: 0003P ACCN: S085408 25X1

SVERDLOVSK RADIO PLT/AUTOMATION RSCH INST HQ UR 564857N 0603315E
 WAC NO : 0156 HE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25E COMIREX NO:
 SVERDLOVSK RADIO PLANT/AUTOMATION RSCH INST UR 565013N 0603710E
 WAC NO : 0156 HE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1
25X125X1
25X1

FTD DRAWING 76D6535 SUPPLEMENTS THIS REPORT ON THE SVERDLOVSK SCIENTIFIC RESEARCH INSTITUTE OF
 AUTOMATION NIIA, INCLUDING THE HEADQUARTERS. THIS INSTALLATION IS ALSO KNOWN AS SVERDLOVSK RADIO PLANT.*

AF PAR 664-78 13 SEP 78 SEC CLASS: 13 MSN: 0003P ACCN: S085409 25X1

ORENBURG SRF ARMY HQ RADIO XMTR STATION BKR UR 520152N 0701818E
 WAC NO : 0165 HE/OBJ NO: NPIC NO : - 140-
 IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1
25X1

THIS REPORT SUPERSEDES PAR 77-622 DATED JULY 25, 1977. IT INCLUDES A FACILITY DESCRIPTION, ANTENNA
 MENSURATIONS AND FACILITY STATUS FOR ORENBURG SRF ARMY HEADQUARTERS RADIO TRANSMITTER STATION BUNKERED.*

25X1

2039
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

OMSK SRF ARMY HQ RADIO COMMO XMTR BKR HARD UR 545613N 0740739E
WAC NO : 0163 BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

INSTALLATION DETAILS, INCLUDING ANTENNA TYPES AND AZIMUTHS ARE PROVIDED FOR OMSK SRF ARMY HQ RADCOM TRANSMITTER HARD.*

25X1

AF PAR 675-78 14 SEP 78 SEC CLASS: 13 MSN: 0004P

ACCN: 50854125X1

SMOLENSK SRF ARMY HQ RADCOM XMTR BKR HARD UR 544110N 0315100E
WAC NO : 0167 BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

ANTENNA TYPES AND ORIENTATIONS, AND A CHRONOLOGY OF FACILITY GROWTH IS PROVIDED FOR SMOLENSK SRF ARMY HQ RADCOM TRANSMITTER/BUNKERED FROM THE INITIAL GROUND SCARRING OBSERVED IN JANUARY OF 1974 THROUGH

25X1
25X1

AF PAR 675-78 12 SEP 78 SEC CLASS: 13 MSN: 0002P

ACCN: 5085413

MISSILES, SSM FACILITIES SEARCH CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 40 COMIREX NO:

25X1

2040
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR 06539-78 05 SEP 78 SEC CLASS: 13 MSN: 0001P ACCN: S085416 25X1

MOSKVA MISSILE DESIGN BUREAU

WAC NO : 0167

BE/OBJ NO:

UR 554415N 0373700E

IUHS CODE:

EPF CAT : 40E

NPIC NO : -

COMIREX NO:

THIS FTD DRAWING SUPPLEMENTS PAR 78-674.**

AF ENDR 04515-78 06 JUN 78 SEC CLASS: 13 MSN: 0001P ACCN: S085417 25X1

TYURATAM MTC ICBM SITE V4 LAYOUT/SILO DETAIL

WAC NO : 0246

BE/OBJ NO:

UR 460325N 0630154E

IUHS CODE:

EPF CAT : 40A

NPIC NO : - 6-T1

COMIREX NO:

THIS DRAWING SUPERCEDES DRAWING 76C4528. IT SUPPLEMENTS PARS 76-666, 77-542 AND 78-607, AND DRAWING 78E1505.*

AF ENDR 03508-78 06 JUN 78 SEC CLASS: 13 MSN: 0001P ACCN: S085418 25X1

MISSILES, ICBM TYPE 3H SILO UPPER DETAILS

WAC NO :

BE/OBJ NO:

UR

IUHS CODE:

EPF CAT : 40A

NPIC NO : -

COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 77-542 AND 78-607 AND SUPERSEDES DRAWING 77C3501.*

2041
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR C6534-78 08 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: S085425X1 ()

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 165
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 45-B5
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-653 AND SUPERSEDES DRAWINGS 71C6520/5 AND 70B4501/2.*

AF ENDR B4522-78 12 SEP 78 SEC CLASS: 13 MSN: 0001P

ACCN: S085425X1

KUNMING SSM FIELD POSITION
WAC NO : 0496 BE/OBJ NO: NPIC NO : - 4-B1
IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-677 AND 77-564. IT SUPERSEDES DRAWING 72D4528/3, INSET R.*

AF ENDR D6535-78 17 AUG 78 SEC CLASS: 14 MSN: 0001P

ACCN: S085425X1

SVERDLOVSK RADIO PLT/AUTOMATION RSCH INST HQ
WAC NO : 0156 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25E COMIREX NO:
SVERDLOVSK RADIO PLT/AUTOMATION RSCH INST HQ
WAC NO : 0156 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 65A COMIREX NO:
SVERDLOVSK RADIO PLANT/AUTOMATION RSCH INST
WAC NO : 0156 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 65A COMIREX NO:
SVERDLOVSK RADIO PLANT/AUTOMATION RSCH INST
WAC NO : 0156 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-656.*

AF ENDR D4528-3-72 12 SEP 78 SEC CLASS: 13 MSN: 0001P

ACCN: S085425X1

KUNMING SSM FIELD POSITION
CH 245208N 1025347E

25X1

2042
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

WAC NO : 0496
IDHS CODE:
ITU SSM TRAINING POSITION
WAC NO : 0381
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40
BE/OBJ NO:
EPF CAT : 40

NPIC NO : - 4-B1
COMIREX NO:
CH 363604N 1182842E
NPIC NO : - 195-B
COMIREX NO:

25X1
25X1
25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 72-638, 77-535 AND 77-564.*

AF ENDR D6510-7-70 25 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: 5085424 25X1

SHUANGCHENG TZU MTC ICRM SITE R1/2 TRENCHING
WAC NO : 0287 BE/OBJ NO:
IDHS CODE: EPF CAT : 40A

CH 411828N 1001854E
NPIC NO : - 1-N
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-634, 78-666, 71-597, 72-534, 73-556 AND 74-697.*

AF ENDR D6537-78 25 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: 5085425 25X1

SHUANGCHENG TZU MTC ICRM SITE R1/2 TRENCHING
WAC NO : 0287 BE/OBJ NO:
IDHS CODE: EPF CAT : 40A

CH 411828N 1001854E
NPIC NO : - 1-N
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-666 AND 77-634 AND DRAWINGS 77E6531 AND 70D6510/6.*

25X1

2043
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR D6528-78 19 JUN 78 SEC CLASS: 13 MSN: 0001P

ACCN: 508542 25X1

KUZNETSOVO AIRCRAFT ENGINE TEST FAC PROB U/C UR 553226N 0382941E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 215-A
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-622.*

25X1

AF ENDR C6510-4-68 18 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: 508543 25X1

VORONEZH ROCKET ENGINE TEST FACILITY UR 513432N 0390945E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 46-K
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-660, 68-543, 68-754, 69-754 AND 73-608 AND DRAWINGS 68B4567, 69B4572, 69D4571 AND 78D6536.*

AF ENDR D4571-1-69 18 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: 508543 25X1

VORONEZH ROCKET ENG TEST FAC HRZTL TEST BLDG UR 513432N 0390945E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 46-K
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 69-754 AND 78-660.*

AF ENDR D6536-78 18 AUG 78 SEC CLASS: 13 MSN: 0001P

ACCN: 508543 25X1

2044
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR D6511-2-73 15 MAY 78 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: S085434 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 5
WAC NO : 0167 BE/OBJ NO: [REDACTED] UR 553238N 0380710E
IDHS CODE: [REDACTED] EPF CAT : 05G NPIC NO : - 50-D5
COMIREX NO: [REDACTED]25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-630, 78-566 AND 78-613 AND DRAWING 78E3507.*

AF ENDR E3507-78 02 JUN 78 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: S085435 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 5
WAC NO : 0167 BE/OBJ NO: [REDACTED] UR 553238N 0380710E
IDHS CODE: [REDACTED] EPF CAT : 05G NPIC NO : - 50-D5
COMIREX NO: [REDACTED]25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 78-613 AND DRAWING 73S6511/2.*

AF ENDR E1500-78 02 AUG 78 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: S085436 25X1

MISSILES, ICBM TYPE 3X SITE ASSOC BLDGS
WAC NO : BE/OBJ NO: [REDACTED] UR
IDHS CODE: EPF CAT : 40A NPIC NO : -
COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 78-610, 76-602, AND 74-510.*

NPIC MEMO [REDACTED] 23 OCT 78 [REDACTED] SEC CLASS: 14B MSN: 0002P

ACCN: S085437 25X1

SHELANGER RADIO RELAY STATION
WAC NO : 0155 BE/OBJ NO: [REDACTED] UR 561220N 0481340E
IDHS CODE: [REDACTED] EPF CAT : 25D NPIC NO : - 57-A
COMIREX NO: [REDACTED]25X1
25X1

NPIC MEMO [REDACTED] 23 OCT 78 [REDACTED] SEC CLASS: 14B MSN: 0002P

ACCN: S085438 25X1

KROPOTKIN RADIO RELAY STATION
WAC NO : 0249 BE/OBJ NO: [REDACTED] UR 452700N 0403415E
NPIC NO : - 81-B

25X1

2045
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIR 5B1-59854-78 13 OCT 78 [] EPF CAT : 25D COMIREX NO: [] 25X1
SEC CLASS: 14B MSN: [] 3P ACC: 5085441 25X1
VILNIUS AMMUNITION STORAGE FACILITY UR 544550N 0251700E
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1
25X1 ()

DIA IIR 5B1-59879-78 23 OCT 78 [] SEC CLASS: 14B MSN: [] 3P ACC: 5085441 25X1
POZNAN PETROLEUM PRODUCTS STORAGE KOBYLNIC PL 522704N 0170520E
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 80A COMIREX NO: 25X1
DIA IIR 5B1-59897-78 OCT 78 [] SEC CLASS: 14B MSN: [] 5P ACC: 5085441 25X1
CARACAL AMMUNITION STORAGE + TRNG AREA NNE RO 440835N 0242220E 25X1
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : - 22-A2 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1
CARACAL AMMUNITION STORAGE + TRNG AREA NNE RO 440835N 0242220E 25X1
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : - 22-A2 25X1
IDHS CODE: [] EPF CAT : 35B COMIREX NO: 25X1
25X1 ()

2046
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUF

25X1

VERNOYE/ORLOVKA AIRFIELD AIRCRAFT BUNKERS

WAC NO : 0203

BE/ORJ NO

IDHS CODE:

EPF CAT : 05A

UR 511558N 1284318E

NPIC NO : - 216

COMIREX NO:

25X1
25X1

25X1

2047

TOP SECRET CHESS RUF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

DIA BIIR RDA11-0026-77 OCT 78 SEC CLASS: 13 MSN: 0008P

ACCN: 5085457 25X1

LENINGRAD HEAT + THERMAL POWER PLANT KRASNOY	UR	595315N 0301452E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 30E	COMIREX NO:	
LENINGRAD MILITARY DESIGN BUREAU CENTRAL	UR	595240N 0301440E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 35G	COMIREX NO:	
LENINGRAD PETROLEUM PRODUCTS STORAGE	UR	595318N 0301446E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 80A	COMIREX NO:	
LENINGRAD HEAVY EQUIPMENT PLANT KIROV 185	UR	595302N 0301456E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	- 36-M
IDHS CODE:	EPF CAT : 30C	COMIREX NO:	

25X1
25X125X1
25X125X1
25X125X1
25X1

THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF LENINGRAD HEAVY EQUIPMENT PLANT KIROV 185. THE PLANT IS IN THE HARBOR REGION OF THE SOUTHWEST SECTION OF LENINGRAD. THE PLANT COVERS APPROXIMATELY 170 HECTARES AND CONTAINS 157 BUILDINGS (TOTALING 823,652 SQUARE METERS OF ROOF COVER). IT INCLUDES FOUR FUNCTIONAL AREAS AS FOLLOWS: STEEL PRODUCTION, FABRICATION AND ASSEMBLY, ADMINISTRATION, AND LENINGRAD PETROLEUM PRODUCT STORAGE HEAVY EQUIPMENT PLANT. THE PLANT PRODUCES THE K-700/K-701 WHEELED TRACTOR.

25X1

2049
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

25X1

CIA	NOTE	ISSN0007J-78	OCT 78	SEC CLASS: 25	MSN:	0014P	ACCH: 508546	25X1
	LENINGRAD SOLID MTR TEST SA-N-1 LCHR MOCKUP			UR	600401N 0303615E			
	WAC NO : 0103	BE/OBJ NO:		NPIC NO	: - 42-T2			25X1
	IDHS CODE:	EPF CAT : 406		COMIREX NO:				25X1
	TRANSPORTATION: RAIL SYSTEM DEVELOPMENT			CH				
	WAC NO :	BE/OBJ NO:		NPIC NO	: -			
	IDHS CODE:	EPF CAT : 85B		COMIREX NO:				
	SHAHSIEN COMSAT COMMAND CONTROL FAC PROB U/C			CH	2623 N 11748 E			
	WAC NO : 0498	BE/OBJ NO:		NPIC NO	: -			
	IDHS CODE:	EPF CAT : 25C		COMIREX NO:				
	SIMFEROPOL ARMY BKS AL6 FOREIGN TRP TRNG CTR			UR	445018N 0341956E			
	WAC NO : 0250	BE/OBJ NO:		NPIC NO	: - 128-A4			25X1
	IDHS CODE:	EPF CAT : 35A		COMIREX NO:				25X1
	SIMFEROPOL ARMY BKS AL6 FOREIGN TRP TRNG CTR			UR	445018N 0341956E			
	WAC NO : 0250	BE/OBJ NO:		NPIC NO	: - 128-A4			25X1
	IDHS CODE:	EPF CAT : 35B		COMIREX NO:				25X1
	MILITARY: ARTILLERY WEAPON TOWED NEW			UR				
	WAC NO :	BE/OBJ NO:		NPIC NO	: -			
	IDHS CODE:	EPF CAT : 35F		COMIREX NO:				
	PERM ARMAMENT + GM SUPPORT EQUIP PLT ARTY NEW			UR	580145N 0561708E			

2050
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 16-C
 IDHS CODE: [] EPF CAT : 35G COMIREX NO: []
 PERM ARMAMENT + GM SUPPORT EQUIP PLT ARTY NEW UR 580145N 0561708E
 WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 16-C
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 KURUMUCH ROCKET ENG TEST ACOUSTICAL TEST AREA UR 533215N 0495116E
 WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 38
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

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DIA BIIR RDA11-0017-78 OCT 78 [] SEC CLASS: 14B MSN: [] 0006P

ACCN: S085462

25X1

TRENCIN ARMAMENT + GUIDED MISSILE DEV PLANT CZ 485324N 0180413E
 WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 195-C1
 IDHS CODE: [] EPF CAT : 35G COMIREX NO: []
 TRENCIN ARMAMENT + GUIDED MISSILE DEV PLANT CZ 485324N 0180413E
 WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 195-C1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

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THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF TRENCIN ARMAMENT AND GUIDED MISSILE DEVELOPMENT PLANT IN EAST-CENTRAL CZECHOSLOVAKIA. THIS WALL-ENCLOSED AND RAIL SERVED MANUFACTURING PLANT ENCOMPASSES 2.6 HECTARES AND INCLUDES 67 BUILDINGS WITH A TOTAL ROOF COVER OF 81,798 SQUARE METERS.

CIA IRP IS10215K-78 SEP 78 [] SEC CLASS: 13 MSN: [] 0113P

ACCN: S085463

25X1

TRANSPORTATION, RAIL LINE STANDARD GAUGE CH
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: []

THIS REPORT DESCRIBES ACTIVE STANDARD GAUGE RAIL CONSTRUCTION IN CHINA OBSERVED ON PHOTOGRAPHY FROM DECEMBER 1976 THROUGH DECEMBER 1977.

THE INFORMATION IN THIS REPORT IS PRESENTED UNDER SIX GEOGRAPHICAL REGIONS OF CHINA ESTABLISHED BY THE OFFICE OF GEOGRAPHIC AND CARTOGRAPHIC RESEARCH, CIA. THE BOUNDARIES OF THESE REGIONS CONFORM TO PROVINCE BOUNDARIES. MAJOR ACTIVITY DURING 1977 IS SUMMARIZED AT THE BEGINNING OF EACH REGIONAL PRESENTATION, AND DETAILED INFORMATION IS PRESENTED IN TABULAR FORM BY PROVINCE AND TYPE OF RAIL PROJECT. EACH RAIL PROJECT IS NUMBERED AND ITS LOCATION IS SHOWN ON A MAP AT THE END OF EACH REGIONAL PRESENTATION. RAIL PROJECTS WHICH WERE ACTIVE DURING 1975 AND 1976, BUT WHICH WERE NOT OBSERVED OR REMAINED ESSENTIALLY UNCHANGED DURING 1977, ARE ALSO LISTED AT THE END OF THE APPROPRIATE GEOGRAPHIC REGION AS ARE RAIL LINES AND SELECTED BRANCH LINES IN EACH REGION. AN OVERALL MAP OF THE CHINESE RAIL NETWORK IS LOCATED AT THE END OF THIS REPORT.

PHOTOGRAPHIC COVERAGE USED IN PREPARATION OF THIS REPORT INCLUDED ONE [] THIS PHOTOGRAPHY PROVIDED GOOD COVERAGE OF APPROXIMATELY 95 PERCENT OF THE CHINESE RAIL NETWORK. THE ONLY SIGNIFICANT SECTIONS OF RAIL LINE NOT OBSERVED WERE THE LIU-CHOU/HUAI-HUA RAIL LINE IN KWANGSI CHUANG AUTONOMOUS REGION AND IN HUNAN PROVINCE AND PORTIONS OF THE LIU-CHOU/HUAI-HUA RAIL LINE IN HUPEH AND HUNAN

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2051

TOP SECRET CHESS RUFF

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PROVINCES. A SUMMARY DISCUSSION OF RAIL ACTIVITY DURING THE 11-YEAR PERIOD SINCE 1966 IS PROVIDED IN THE APPENDICES. INFORMATION PRESENTED FOR THE 1967 TO 1970 PERIOD IS BASED PRINCIPALLY ON ANALYSIS OF LOW-RESOLUTION IMAGERY WHICH ONLY PARTIALLY COVERED THE RAIL NETWORK IN ANY SINGLE YEAR. THEREFORE, THE IMAGERY-DERIVED DATA DURING THIS PERIOD IS FRAGMENTARY. SINCE 1970, NEARLY ALL OF THE NETWORK HAS BEEN OBSERVED ON [REDACTED]

BEREZA AIRFIELD DRONE SUPPORT EQUIPMENT IDENT	UR	523328N	0245251E
WAC NO : 0168	BE/OBJ NO :	NPIC NO :	- 6
IDHS CODE:	EPF CAT : 05A	COMIREX NO:	
JOMNA AIRFIELD DRONE SUPPORT EQUIPMENT SEARCH	UR	515500N	1130718E
WAC NO : 0201	BE/OBJ NO:	NPIC NO :	- 2
IDHS CODE:	EPF CAT : 05A	COMIREX NO:	
SOKHONDO AIRFIELD DRONE SUPPORT EQUIP SEARCH	UR	515040N	1122850E
WAC NO : 0201	BE/OBJ NO:	NPIC NO :	- 14
IDHS CODE:	EPF CAT : 05A	COMIREX NO:	
PRUZHANY ARMY BARRACKS DRONE EQUIPMENT IDENT	UR	523600N	0242345E
WAC NO : 0168	BE/OBJ NO:	NPIC NO :	- 61-B1
IDHS CODE:	EPF CAT : 35A	COMIREX NO:	
GNOYNO ASM SUPPORT FACILITY DRONE EQUIP IDENT	UR	505525N	0242640E
WAC NO : 0232	BE/OBJ NO:	NPIC NO :	- 44-A1
IDHS CODE:	EPF CAT : 40J	COMIREX NO:	
MARCIENA MISSILE SUPT FACIL DRONE EQUIP IDENT	UR	564650N	0260500E
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	- 108
IDHS CODE:	EPF CAT : 40	COMIREX NO:	

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AF B11R RFB22-5006-78 JUL 78 SEC CLASS: 08 MSN: 0010P ACCN: 5085469

MISSILES, AS-6
WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 40J NPIC NO : -
COMIREX NO:

THE KINGFISH (AS-6) IS A DELTA-WING, ROCKET-POWERED, AIR-TO-SURFACE MISSILE (ASM) CARRIED BY BADGER G AND MODIFIED BADGER C AIRCRAFT. THIS REPORT INCLUDES A BASIC DESCRIPTION, AN ORTHOGRAPHIC ENGINEERING DRAWING, AND SELECTED PHOTOGRAPHY OF THE KINGFISH.

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TOP SECRET CHESS RUFF

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

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DIA IIM 561-59928-78 25 OCT 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: 508547-25X1

CHYZANOW PETROLEUM PRODUCTS STGE FAC NOLEGIN PL 500710N 0192720E
WAC NO : 0232 BE/OBJ NO: NPIC NO : -
IDHS CODE: [REDACTED] EPF CAT : 80A COMIREX NO:

25X1

DIA IIM 561-59939-78 27 OCT 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: 508547-25X1

CIORANII DE JOS AMMUNITION DEPOT 501 RO 444558N 0262240E

2056
TOP SECRET CHESS RUFF [REDACTED]

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TOP SECRET CHESS RUFF

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25X1WAC NO : 0251
IDHS CODE:BE/OBJ NO:
EPF CAT : 35FNPIC NO : - 177
COMIREX NO:25X1
25X1
25X1

DIA IIM 5B1-59951-78 27 OCT 78

SEC CLASS: 14B MSN: 0004P

ACCN: 5085476 25X1

CISLAU AMMUNITION DEPOT REGIONAL

WAC NO : 0251
IDHS CODE:BE/OBJ NO:
EPF CAT : 35FRO 451320N 0262500E
NPIC NO : - 20-D
COMIREX NO:25X1
25X1

DIA IIM 5B1-59961-78 30 OCT 78

SEC CLASS: 14B MSN: 0002P

ACCN: 5085477 25X1

CHOSZCZNO PETROLEUM PRODUCTS STGE FAC DOLICE

WAC NO : 0169
IDHS CODE:BE/OBJ NO:
EPF CAT : 80APL 531225N 0151350E
NPIC NO : -
COMIREX NO:25X1
25X1

DIA IIM 5B3-59937-78 27 OCT 78

SEC CLASS: 13 MSN: 0002P

ACCN: 5085480 25X1

AIRCRAFT, BACKFIRE ACTIVITY

WAC NO :
IDHS CODE:BE/OBJ NO:
EPF CAT : 05DUR
NPIC NO : -
COMIREX NO:

DIA IIM 5B3-59942-78 30 OCT 78

SEC CLASS: 13 MSN: 0003P

ACCN: 5085481 25X1

ZHANGIZTOBE AIRFIELD EAST AIRCRAFT BUNKERS

WAC NO : 0239

BE/OBJ NO:

UR 491312N 0811903E
NPIC NO : - 35-02

25X1

2057
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:

EPF CAT : 05A

COMIREX NO:

25X1

25X1

DIA IIM 583-59967-78 30 OCT 78

SEC CLASS: 13 MSN:

0004P

ACCN: 5095

25X1

TAGANROG AIRFRAME PLANT DIMITROV 86

UR 471150N 0385220E

WAC NO : 0249

BE/OBJ NO:

NPIC NO : - 38-D

25X1

IDHS CODE:

EPF CAT : 05G

COMIREX NO:

25X1

2058

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA BIIR RDA11-0007-77

OCT 78

SEC CLASS: 14B MSN:

0005P

ACCN: S085493 25X1

CHELYABINSK PETROLEUM PRODUCTS STORAGE

WAC NO : 0164

BE/OBJ NO:

UR 550923N 0612849E

NPIC NO : -

IDHS CODE:

EPF CAT : 80A

COMTREX NO:

CHELYABINSK TRACTOR + GM SUPPORT EQUIP PLANT

WAC NO : 0164

BE/OBJ NO:

UR 550916N 0612802E

NPIC NO : - 3-B

IDHS CODE:

EPF CAT : 40E

COMTREX NO:

CHELYABINSK TRACTOR + GM SUPPORT EQUIP PLANT

WAC NO : 0164

BE/OBJ NO:

UR 550916N 0612802E

NPIC NO : - 3-B

25X1
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2059
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:

EPF CAT : 30C

COMIREX NO:

25X1

THIS REPORT SUPERSEDES DIA, RDA-11/0022/70, CHELYABINSK TRACTOR PLANT, JANUARY 1970 (TOP SECRET CHESS RUFF), FORMERLY THE BASIC REPORT FOR THIS INSTALLATION.

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF CHELYABINSK TRACTOR AND GUIDED MISSILE SUPPORT EQUIPMENT PLANT, USSR. THE INSTALLATION COVERS APPROXIMATELY 264 HECTARES AND IS FUNCTIONALLY DIVIDED INTO THE FOLLOWING TEN AREAS: SHIPPING/RECEIVING; POWER-PLANT; STORAGE/SUPPORT; FORGE/FABRICATION; STORAGE; STEEL PROCESSING/FABRICATION; ASSEMBLY; POL STORAGE; ADMINISTRATION/SUPPORT AND FABRICATION/ASSEMBLY. THE INSTALLATION HAS 21 SIGNIFICANT PRODUCTION-RELATED BUILDINGS WITH A TOTAL ROOF AREA OF 615,279 SQUARE METERS, AND SIX OPEN STORAGE AREAS COVERING APPROXIMATELY 245,681 SQUARE METERS.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, ONE PHOTOGRAPH AND ONE LINE DRAWING OF THE PLANT. THE DESCRIPTIONS OF THE INSTALLATION AND EACH FUNCTIONAL AREA ARE SUPPLEMENTED BY A TABLE CONTAINING DIMENSIONAL DATA WHICH ARE KEYED TO THE LINE DRAWING. A REFERENCE DATA LIST FURNISHES MAP, IMAGERY AND DOCUMENTARY SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

DIA BIIB BDA10-0001-78

OCT 78

SEC CLASS: 14A

MSN:

0002P

ACCN: 508549

DIEGO SUAREZ PORT FACILITIES COMMERCIAL

MA 121600S 0491717E

WAC NO : 1156

BE/OBJ NO:

NPIC NO : - 1-B

IDHS CODE:

EPF CAT : 75I

COMIREX NO:

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DIEGO SUAREZ PORT FACILITY COMMERCIAL IS LOCATED ON THE EAST COAST OF THE ISLAND OF MADAGASCAR (THE MALAGASY REPUBLIC) ABOUT 20 NAUTICAL MILES SOUTH OF THE NORTHERN TIP OF THE ISLAND. IT IS THE SECOND MOST IMPORTANT PORT ON THE ISLAND AND HAS AN EXCELLENT NATURAL HARBOR. THE FACILITY PRIMARILY HANDLES BULK AND GENERAL CARGO WITH IMPORTS OF FOOD STUFFS, TEXTILES, CONSTRUCTION MATERIALS, POL, COAL, AND MACHINERY. EXPORTS ARE OF HIDES, VANILLA, PEANUTS, COFFEE, AND STEEL. THERE ARE 431 METERS OF BERTHING. MECHANICAL HANDLING EQUIPMENT INCLUDES TWO AUTOMOTIVE JIB CRANES. ADDITIONAL EQUIPMENT IS AVAILABLE AT DIEGO SUAREZ NAVAL BASE AND SHIPYARD. OPEN STORAGE AREAS COVER 14,133 SQUARE METERS. THE FACILITY CONTAINS 12 BUILDINGS/STRUCTURES.

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TOP SECRET CHESS RUFF

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CIA BIIR RCS13-0008-78 OCT 78 SEC CLASS: 13 MSN: 0015P

ACCN: 50854925X1 ()

TANGSHI PETROLEUM REFINERY		CH 324040N 1123545E	
WAC NO : 0395	BE/OBJ NO: []	NPIC NO : -	25X1
UHHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
MUTANCHIANG PETROLEUM REFINERY		CH 443711N 1293755E	25X1
WAC NO : 0283	BE/OBJ NO: []	NPIC NO : - 50-03	25X1
UHHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHUICHANG PETROLEUM REFINERY		CH 294425N 1160410E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : -	25X1
UHHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHINGTAO PETROLEUM REFINERY		CH 361300N 1202250E	25X1
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : -	25X1
UHHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHENHAI PETROLEUM REFINERY U/C		CH 295900N 1213930E	25X1
WAC NO : 0492	BE/OBJ NO: []	NPIC NO : -	25X1
UHHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
INDUSTRY PETROLEUM REFINERIES EXPANSION		CH	
WAC NO :	BE/OBJ NO:	NPIC NO : -	
UHHS CODE:	EPF CAT : 30B	COMIREX NO:	

CHINA'S CRUDE OIL DISTILLATION CAPACITY AT THE END OF 1977 IS ESTIMATED TO BE ABOUT 19 PERCENT GREATER THAN IT WAS IN 1975, BASED ON ANALYSIS OF PHOTOGRAPHY AND OPEN-SOURCE DATA. BETWEEN 1975 AND THE END OF 1977, A NEW CRUDE OIL DISTILLATION UNIT WAS COMPLETED AT EACH OF SEVEN NEW REFINERIES AND THREE EXISTING REFINERIES, INCREASING THE CRUDE CAPACITY BY ABOUT 14 MILLION METRIC TONS PER YEAR (MMT/YR) TO A TOTAL OF SLIGHTLY OVER 88 MMT/YR. AN ADDITIONAL 11.5 MMT/YR OF CAPACITY WILL RESULT FROM THE COMPLETION OF FIVE REFINERIES STILL UNDER CONSTRUCTION. A TOTAL OF 50 REFINERIES, INCLUDING THE FIVE UNDER CONSTRUCTION, HAVE NOW BEEN IDENTIFIED IN CHINA.

SINCE 1975, THERE HAS ALSO BEEN AN INCREASE IN SECONDARY PROCESSING UNITS THAT ENABLE CHINA TO FURTHER PROCESS PETROLEUM PRODUCTS. THE LARGEST GROWTH HAS BEEN THE COMPLETION OF EIGHT CATALYTIC CRACKING UNITS WHICH PRODUCE HIGH-OCTANE GASOLINE. A CATALYTIC REFORMER TO PRODUCE HIGH-OCTANE GASOLINE HAS ALSO BEEN COMPLETED. OTHER NEW SECONDARY PROCESSING UNITS INCLUDE A LUBE OIL PLANT AND A DELAYED COKING UNIT. FOUR OTHER SECONDARY PROCESSING UNITS ARE STILL UNDER CONSTRUCTION.

MOST OF CHINA'S NEW PETROLEUM REFINERIES ARE LARGE MULTIPRODUCT REFINERIES WHICH PRODUCE PETROCHEMICAL OR FERTILIZER FEEDSTOCKS AS WELL AS THE TRADITIONAL OIL-BASED PRODUCTS. THERE HAS BEEN NO NEW CONSTRUCTION OF COMBINATION CRUDE OIL DISTILLATION AND CATALYTIC CRACKING UNITS SINCE 1975.

2062
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

THIS REPORT UPDATES A BASIC REPORT PUBLISHED BY THE OFFICE OF IMAGERY ANALYSIS IN APRIL 1976. THE CURRENT STATUS OF THE CHINESE PETROLFUM INDUSTRY AND DEVELOPMENTS WITHIN THE INDUSTRY DURING 1976 AND 1977 ARE DISCUSSED. PROVIDED IN THE REPORT ARE TABLES COMPARING THE CRUDE OIL DISTILLATION CAPACITY AND SECONDARY PROCESSING FACILITIES AT CHINA'S 50 REFINERIES. DESCRIPTIONS AND PHOTOGRAPHS OF THE FIVE NEWEST REFINERIES ARE INCLUDED.

CIA IRP 1S10237K-78 OCT 78 SEC CLASS: 14 X MSN: 0007P

ACCN: S085500 25X1

ANHUNG MISSILE FLIGHT TEST RANGE

WAC NO : 0380

HE/OBJ NO:

KS 364030N 1261000E

IUHS CODE:

EPF CAT : 40E

NPIC NO : - 176

COMIREX NO:

THE ANHUNG MISSILE FLIGHT TEST RANGE, WHICH HAS BEEN UNDER CONSTRUCTION SINCE 1976, IS NEARING COMPLETION. IT IS THE ONLY TEST RANGE OF ITS TYPE IN THE REPUBLIC OF KOREA. THE KOREANS REPORTEDLY WILL BE TESTING A MODIFIED VERSION OF THE US NIKE-HERCULES SURFACE-TO-AIR MISSILE AS A TACTICAL SURFACE-TO-SURFACE MISSILE (SSM) AT ANHUNG. THERE IS NO PHOTOGRAPHIC EVIDENCE THAT ANY SUCH TESTING HAS BEEN CONDUCTED AT THE RANGE AS YET. A MODIFIED NIKE-HERCULES LAUNCHER HAS BEEN IDENTIFIED IN THE ANHUNG LAUNCH AREA, BUT NO MISSILES, MISSILE CANISTERS, OR OTHER MISSILE-RELATED EQUIPMENT HAVE BEEN OBSERVED THERE. THE MODIFIED NIKE-HERCULES IS PART OF A PROGRAM TO DEVELOP A TACTICAL SSM SYSTEM THAT THE KOREANS EXPECT TO DEPLOY BY THE MID-1980S.

A HIGH-EXPLOSIVES ASSEMBLY, TEST, AND EVALUATION FACILITY HAS REPORTEDLY BEEN PLANNED FOR THE ANHUNG RANGE. A SEARCH OF THE RANGE AREA FACILITY FAILED TO REVEAL ANY EVIDENCE OF A HIGH-EXPLOSIVES FACILITY.

2063
TOP SECRET CHESS RUFF

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

[REDACTED] 25X1

DIA B1IR RDA05-0001-78 NOV 78 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0012P

ACCN: 5085503 25X1

[REDACTED] 25X1

WENSHUI AIRFIELD CH 372426N 1115756E
WAC NO : 0382 BE/OBJ NO: [REDACTED] NPIC NO : - 21-C
IUNS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED]

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF WEN-SHUI AIRFIELD AND RELATED FACILITIES DURING THE PERIOD MARCH 1971 TO JULY 1977. THIS INSTALLATION, LOCATED IN THE LAN CHOU AIR DISTRICT IN EAST CENTRAL PEOPLE'S REPUBLIC OF CHINA (PRC), IS AN OPERATIONAL JET BOMBER AIRFIELD THAT WAS COMPLETED IN JUNE 1976. FEATURES DESCRIBED IN THIS REPORT INCLUDED A 3,010M X 53M CONCRETE MAIN RUNWAY, TAXIWAYS AND PARKING FACILITIES, POL STORAGE WITH AN ESTIMATED CAPACITY OF 139,598 LITRES, ACCOMMODATIONS, STORAGE, AND TRANSPORTATION.

2064
TOP SECRET CHESS RUFF [REDACTED]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM AND INCLUDES A MAP, 12 ANNOTATED PHOTOGRAPHS, A CHRONOLOGY, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

DIA BIIR RDA06-0001-78 OCT 78 [] SEC CLASS: 14D MSN: [] 0007P

ACCN: 5085504

25X1

SAIGON NAVAL BASE + SHIPYARD

WAC NO : 0739

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75B

VM 104658N 1064250E

NPIC NO : - 119-A1

COMIREX NO: []

25X1

25X1

25X1

SAIGON NAVAL BASE + SHIPYARD

WAC NO : 0739

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75E

VM 104658N 1064250E

NPIC NO : - 119-A1

COMIREX NO: []

25X1

25X1

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF SAIGON NAVAL BASE AND SHIPYARD, VIETNAM. THE SHIPYARD HAS THE FACILITIES TO REPAIR AND POSSIBLY BUILD SHIPS UP TO FRIGATE IN SIZE. THE INSTALLATION OCCUPIES 15,178.75 HECTARES AND HAS A TOTAL OF 87,328 SQUARE METERS OF ROOF COVER.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL AND TABULAR FORM. IT INCLUDES A MAP, THREE ANNOTATED PHOTOGRAPHS, A GLOSSARY OF SHIP TYPES, AND THREE TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND DOCUMENTARY SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

25X1

2065
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CONCRETE RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATION/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 19,314,140 LITERS, ORDNANCE STORAGE, ACCOMMODATIONS, STORAGE, UTILITIES AND TRANSPORTATION. AOB [REDACTED] INCLUDED 34 BADGER, 1 CRATE, AND 1 COLT. THIS REPORT SUPERSEDES DIA, RDA-05/0034/70, [REDACTED], OLENEGORSK AIRFIELD, USSR, MAY 70 (TOP SECRET CODEWORD) AND DIA, RDA-05/0020/75, [REDACTED], OLENEGORSK AIRFIELD, USSR, MAR 75 (TOP SECRET RUFF).

25X1
25X1
25X1

DIA BIIR RDA05-0013-78 OCT 78 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0011P

ACCN: 508550625X1

CHENG-TU/CHIUNG-LAI AIRFIELD

WAC NO : 0495

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 05A

CH 302921N 1032800E

NPIC NO : - 1-B

COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF CHENG-TU/CHIUNG-LAI AIRFIELD, A COMPLETELY RECONSTRUCTED AIRBASE, IN THE CHENG-TU AIR DISTRICT. IT IS SITUATED 9.3 KM NORTH OF THE TOWN OF CHIUNG-LAI AND 57NM WSW OF THE CITY OF CHENG-TU IN SZECHWAN PROVINCE. THIS PREVIOUSLY INACTIVE AIRBASE WAS FIRST OBSERVED UNDER RECONSTRUCTION IN JULY 1971, AND BY NOVEMBER 1972, THE RUNWAY, THE W-SHAPED TAXIWAY, 2 RECTANGULAR PARKING APRONS, 10 LOOP PARKING HARDSTANDS, AND THE LINK TAXIWAYS WERE COMPLETE AND SERVICEABLE. THE PRIMARY SUPPORT FACILITIES REMAINED IN VARIOUS STAGES OF CONSTRUCTION THROUGH FEBRUARY 1974 WHEN THE POL STORAGE AREA APPROACHED COMPLETION. THE BARRACKS AREAS, THE AIRCRAFT MAINTENANCE FACILITY, AND THE FLIGHT OPERATIONS AREAS WERE IN THE FINAL STAGES OF CONSTRUCTION BY MAY 1974.

FACILITIES OF THIS AIRBASE INCLUDE A 2,605M X 50M CONCRETE RUNWAY, TAXIWAYS AND AIRCRAFT PARKING NAVIGATION/LANDING AIDS, POL STORAGE (ESTIMATED CAPACITY 14,079,405 LITERS), AIRCRAFT MAINTENANCE, AND PERSONNEL ACCOMMODATIONS.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, FIVE ANNOTATED PHOTOGRAPHS, A CHRONOLOGY, AND 5 TABLES. A NATIONAL BASE REFERENCE GRAPHIC (NBRG) IS INCLUDED.

DIA BIIR RDA11-0003-78 OCT 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0005P

ACCN: 508550725X1

FEODOSIYA TORPEDO + ASW WEAPONS STORAGE FACIL

WAC NO : 0249

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 75H

UR 450047N 0352427E

NPIC NO : - 7-L

COMIREX NO: [REDACTED]

25X1
25X1

THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF FEODOSIYA TORPEDO AND ASW WEAPONS STORAGE FACILITY, USSR. THE INSTALLATION IS LOCATED 1.0NM SOUTHEAST OF FEODOSIYA NAVAL BASE AND SHIP REPAIR YARD, [REDACTED] AT 45-00-48N035-24-38E. THE PRESENCE OF STORAGE BUNKERS, ASSEMBLY/CHECKOUT FACILITIES, AND NEW WEAPONS DURING THEIR TEST PERIOD (SUCH AS THE SS-N-14) NEAR FEODOSIYA NAVAL BASE AND SHIP REPAIR YARD TENDS TO INDICATE THAT THIS FACILITY IS A STORAGE SITE FOR SUBMARINE AND SURFACE SHIP WEAPONS DURING THEIR TEST AND EVALUATION PERIOD.

THIS REPORT IS PRESENTED IN GRAPHIC, TEXTUAL AND TABULAR FORM. IT INCLUDES A MAP, AN ORIENTATION VIEW OF THE FEODOSIYA AREA, AN ENLARGED VIEW OF THE SUBJECT FACILITY, ANNOTATED PHOTOGRAPHS OF SELECTED ORDER-OF-BATTLE AND A TABLE OF FUNCTIONAL AREAS AND DESCRIPTIVE DATA.

25X1

2066
TOP SECRET CHESS RUFF

25X1

Sanitized Copy Approved for Release 2010/03/16 : CIA-RDP79T01184A000100040001-5

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TOP SECRET CHESS RUFF

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NPIC MEMO

03 NOV 78

SEC CLASS: 14B

MSN:

0001P

ACCN: 508552(25X1)

ILOVAYSK RADIO RELAY STATION SEARCH

WAC NO : 0249

IUHS CODE:

BE/OBJ NO:

EPF CAT : 25D

UR 475530N 0381100E

NPIC NO : -

COMIREX NO:

25X1

2071
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

10HS CODE: [] EPF CAT : 05A COMIREX NO: []
DIA IIM 581-59987-78 06 NOV 78 [] SEC CLASS: 14B MSN: [] 0002P
RUFEN PETROLEUM PRODUCTS STORAGE FACILITY PL 525940N 0144430F
WAC NO : 0169 BE/OBJ NO: [] NPIC NO : -
10HS CODE: [] EPF CAT : 80A COMIREX NO:
NPIC MEMO [] 07 OCT 78 [] SEC CLASS: 14B MSN: [] 0001P
MOSKVA SPACE RESEARCH INSTITUTE ANTENNA SRCH UR 553918N 0373159E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 105-A2
10HS CODE: [] EPF CAT : 25C COMIREX NO: []
NPIC MEMO [] 06 NOV 78 [] SEC CLASS: 14B MSN: [] 0001P
LAZAREVSKOYE RADIO RELAY STATION SEARCH UR 435500N 0392000E
WAC NO : 0324 BE/OBJ NO: [] NPIC NO : -
10HS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

ACCN: 50855225X1

25X1 ()

ACCN: 508553125X1

25X1

25X1

ACCN: 50855325X1

25X1

2072
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IIM 583-60037-78 13 NOV 78 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S085561 25X1

SANTREDIA AIRFIELD EAST AIRCRAFT BUNKERS

UR 421028N 0422846E

WAC NO : 0324

BE/OBJ NO: []

NPIC NO : - 15

IDHS CODE: []

EPF CAT : USA

COMIREX NO: []

25X1
25X1

25X1

DIA IIM 583-60036-78 14 NOV 78 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S085563 25X1

DALLYAR AIRFIELD AIRCRAFT BUNKERS

UR 405326N 0455719E

WAC NO : 0325

BE/OBJ NO: []

NPIC NO : - 13

IDHS CODE: []

EPF CAT : USA

COMIREX NO: []

25X1
25X1

DIA IIM 583-60038-78 13 NOV 78 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S085564 25X1

TBILISI/MARNEULI AIRFIELD AIRCRAFT BUNKERS

UR 412739N 0444704E

WAC NO : 0325

BE/OBJ NO: []

NPIC NO : - 63

IDHS CODE: []

EPF CAT : USA

COMIREX NO: []

25X1
25X1

25X1

2073
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IIM 5B1-60025-78 06 NOV 78 [] SEC CLASS: 14B MSN: [] 0002P ACCN: S08556-25X1 ()

STARAYA RUZA CIVIL DEFENSE COMMAND POST UR 553810N 0362010E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 10A COMIREX NO:

25X1

DIA IIM 5B1-60013-78 03 NOV 78 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S08556-25X1

KOPAZI MILITARY VEHICLE STGE DPO SIGNAL REGT UR 565820N 0242550E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 63-11
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

DIA IIM 5B1-59965-78 08 NOV 78 [] SEC CLASS: 14B MSN: [] 0004P ACCN: S08556-25X1

CLUJ AMMUNITION DEPOT SOMESENI 502 RO 464630N 0233953E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

25X1

DIA IIM 5B1-60042-78 07 NOV 78 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S08557-25X1 ()

NIKEL MILITARY STGE DPO DX1 EXPLO STGE PRON UR 692550N 0301400E
WAC NO : 0051 BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

DIA IIM 5B1-60027-78 07 NOV 78 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S08557-25X1

NIKEL MILITARY STORAGE DEPOT DX2 UR 692725N 0303500E
WAC NO : 0051 BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

2074
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-60021-78 06 NOV 78 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S085573 25X1
 KRICHEV SIGNAL DEPOT
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 33-A 25X1
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA NBKG NDA07-5223-78 16 NOV 78 SEC CLASS: 056 MSN: [] 0001P ACCN: S085574
 USSURIYSK ARMY BARRACKS NORTH AL2/HQ ARTY DIV
 WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 49-A 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA STDY DDB1030-007-78 OCT 78 [] SEC CLASS: 24 MSN: [] 0023P ACCN: S085576 25X1
 MISSILES, SS-20 DEPLOYMENT STATUS
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 40R COMIREX NO: []

THIS REPORT REVIEWS THE CURRENT STATUS OF MOBILE IRBM DEPLOYMENT AND DISCUSSES BASE CONSTRUCTION PATTERNS, OPERATIONAL ACTIVITY, ESTIMATED FORCE DEPLOYMENT, AND SYSTEM MOBILITY. THIS DOCUMENT UPDATES AND SUPPLEMENTS INFORMATION CONTAINED IN DEFENSE INTELLIGENCE AGENCY PUBLICATION, DEPLOYMENT STATUS OF THE SS-20 MOBILE IRBM, DDI-1030-5-77 SAO, DATED AUGUST 1977.

DIA STDY DST1010S-315-78 03 OCT 78 [] SEC CLASS: 14 MSN: [] 0048P ACCN: S085577 25X1
 KAPUSTIN YAR MTC SPACE SITE 7C SL-8J SLV
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-T3 25X1
 IDHS CODE: [] EPF CAT : 40H COMIREX NO: [] 25X1
 SPACE, SL-8J SPACE LAUNCH VEHICLE
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

THE SL-8 SPACE LAUNCH VEHICLE UTILIZES THE SS-5 IRBM AS ITS FIRST STAGE. THE SL-8J IS A SPECIAL VARIANT OF THE SL-8 AND IS LAUNCHED FROM KAPUSTIN YAR MISSILE TEST CENTER (KYMTC) SITE 7C AND IMPACTS APPROXIMATELY 1950 KM DOWNRANGE NEAR SARY SHAGAN. THE SECOND STAGE BURNS THROUGH APOGEE AND PROVIDES ICRM REENTRY CONDITIONS. IT APPEARS THAT ALL SL-8J EVENTS HAVE BEEN LAUNCHED FROM SITE 7C, WHICH CONSISTS OF TWO LAUNCH PAD AREAS, A LARGE MOVABLE GANTRY THAT SERVES EITHER PAD, AND NUMEROUS SUPPORT STRUCTURES. THE FIRST FLIGHT TEST OF THE SL-8J FROM KYMTC OCCURRED [] THE TEST PROGRAM TOTALS 68 FLIGHTS THROUGH [] THESE TESTS HAVE CARRIED A WIDE VARIETY OF PAYLOADS WHICH HAVE SUPPORTED R+D PROGRAMS FOR BOTH ICBM PAYLOADS AND ANTIBALLISTIC MISSILE (ABM) SYSTEMS. THE ABM RADARS AT SARY SHAGAN TRACK MANY OF THE SL-8J EVENTS, ONE EVENT OF WHICH SERVED AS A TARGET VEHICLE FOR AN ABM INTERCEPTOR.

THIS STUDY SUPPLEMENTS DIA STUDY DST-1010S-315-78, SL-8J MISSILE SYSTEM (U). THIS SUPPLEMENTAL STUDY

2075
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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PROVIDES ADDITIONAL BASIS FOR THE SYSTEM ASSESSMENT. IT IS INTENDED TO FULFILL THE REQUIREMENTS OF DEPARTMENT OF DEFENSE CONSUMERS FOR SCIENTIFIC AND TECHNICAL INTELLIGENCE ON THE SL-3J BOOSTER SYSTEM AND ITS VARIOUS R+D PAYLOADS. COMPLETE DEFINITION OF THE VARIOUS PAYLOADS IS NOT POSSIBLE DUE TO THE LIMITED DATA AVAILABLE DURING THE REENTRY PHASE.

25X1

DIA STDY DST1000C-555-78 30 SEP 78

SEC CLASS: 25

MSN:

0048P

ACCN: 508558:25X1

MISSILES, BALLISTIC MISSILE SYSTEMS ACTIVITY

CH

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 40

COMIREX NO:

THIS SEMI-ANNUAL REPORT PRESENTS A SUMMARY OF THE PEOPLE'S REPUBLIC OF CHINA (PRC) ICBM/IRBM/MRBM SYSTEMS ACTIVITY OBSERVED DURING THE PERIOD 1 JANUARY - 30 JUNE 1978. THE REPORT CONTAINS ASSESSMENTS OF NEW OR UNUSUAL ACTIVITY INVOLVING OPERATIONAL SYSTEMS, INCLUDING THE RESPECTIVE DEPLOYMENT PROGRAMS. IN ADDITION, INDICATORS OF EMERGING OR NEW ICBM/IRBM/MRBM SYSTEMS, FLIGHT TEST ACTIVITY, AND OVERHEAD PHOTOGRAPHY OF MISSILE PRODUCTION FACILITIES, ROCKET ENGINE TEST FACILITIES, AND MISSILE TEST CENTERS ARE DISCUSSED.

25X1

THE ONLY BALLISTIC MISSILE LAUNCH DETECTED IN CHINA DURING THIS REPORTING PERIOD WAS THE SUCCESSFUL LAUNCH OF A CSS-X-4 ICBM ON 15 APRIL 1978. THE VEHICLE WAS LAUNCHED ON A FLIGHT AZIMUTH OF ABOUT 275 DEGREES FROM THE SHUANG-CH'ENG-TZU MISSILE TEST CENTER TO THE K'U-LU-K'U IMPACT AREA IN WESTERN CHINA. RANGE TO THE IMPACT AREA WAS APPROXIMATELY 900 KM.

CSS-3 FIRST AND SECOND STAGES WERE IDENTIFIED FOR THE FIRST TIME AT THE TAN-CHOU UNIDENTIFIED FACILITY LOCATED ABOUT 90 KM SW OF THE CSS-3 SILO AT T'UNG-TAO. CERTAIN SIMILARITIES WITH

25X1

2076
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1
ZDAI

THE CHIU-MENG-CHIN TRAINING SITE SUGGEST THE TAN-CHOU FACILITY COULD POSSIBLY BE ENGAGED IN MISSILE TROOP TRAINING.

THE CONSTRUCTION AT THE CHING-YU MISSILE TEST CENTER PREVIOUSLY REPORTED AS TWO SILOS UNDER CONSTRUCTION HAS NOW BEEN NEGATED. THE PURPOSE OF THE MAJOR ACTIVITY REMAINS UNKNOWN, ALTHOUGH A LARGE STRUCTURE, PRESENTLY UNDER CONSTRUCTION, RESEMBLES A MISSILE LAUNCH CONTROL CENTER.

A NEW MISSILE AND SPACE LAUNCH CENTER WAS IDENTIFIED IN FEBRUARY 1978, UNDER CONSTRUCTION AT SUNG-LIN IN SOUTH-CENTRAL CHINA. AT PRESENT, THE LAUNCH POINT SUBSTRUCTURE IS NEARLY IDENTICAL TO THE ONE AT SITE D, WU-CHAI MISSILE TEST CENTER. ESTIMATED COMPLETION DATE FOR THE SITE IS MID- TO LATE-1980. THE CENTER WILL PROBABLY SUPPORT SPACE LAUNCHES TO GEOSYNCHRONOUS ORBITS, ALTHOUGH A MISSILE ROLE CANNOT BE RULED OUT.

25X1

DIA REPT IAR003-78 OCT 78 SEC CLASS: 14 MSN: 0074P ACCN: S085589 25X1

MILITARY, RIVER CROSSING UNITS/EQUIPMENT

EG

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35

COMIREX NO:

THIS STUDY PROVIDES A COMPREHENSIVE OVERVIEW OF THE SEPTEMBER - DECEMBER 1977 STATUS OF EGYPTIAN RIVER-CROSSING UNITS, USING PHOTOGRAPHY AS THE PRIMARY SOURCE OF INTELLIGENCE. ANALYSIS OF THE CANAL AND THE EXTENSIVE RENOVATIONS UNDERWAY THERE ARE PRESENTED IN SECTION 2. THE RIVER-CROSSING EQUIPMENT AVAILABLE TO THE EGYPTIANS, ITS CAPABILITIES, AND METHODS OF DEPLOYMENT ARE DISCUSSED IN SECTION 3. FINALLY, PHOTOGRAPHS AND MAPS DEPICTING UNITS AND POTENTIAL CROSSING POINTS ARE PROVIDED FOLLOWING SECTION 4. WHENEVER POSSIBLE, EQUIPMENT TYPES ARE IDENTIFIED ON THESE GRAPHICS. HOWEVER, WHEN LARGE NUMBERS OF VEHICLES OR EQUIPMENT ARE PRESENT ONLY REPRESENTATIVE ITEMS ARE ANNOTATED.

DIA DIIR RDA11-0010-78 OCT 78 SEC CLASS: 14B MSN: 0015P ACCN: S085593 25X1

LENINGRAD ORDNANCE R+D FACILITY

UR 600307N 0303237E

WAC NO : 0103

BE/OBJ NO:

NPIC NO : 42-M1

IDHS CODE:

EPF CAT : 356

COMIREX NO:

25X1
25X1

2077

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF Leningrad Ordnance Research and Development Facility. This installation, located approximately 16.5 kilometers northeast of Leningrad, USSR, is apparently engaged in the acceptance testing of weapons. It includes the following facilities: five rangehead areas, an armor penetration range, a rocket test range, a fragmentation testing area, an automatic weapons test range, a support area, an ammunition storage area, and a motor pool. The principal sightings of equipment in these areas include tanks, self-propelled guns, mobile multiple rocket launchers (MRL) and artillery. The installation has a total roof cover of 63,827 square meters. The information is presented in graphic, textual, and tabular form. It includes a map, nine annotated photographs, and nine tables.

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2078
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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DIA BIIR RDA05-0003-78 OCT 78 SEC CLASS: 14R MSN: 0016P

ACCN: S085597 25X1

KOTLAS PETROLEUM PRODUCTS STGE SAVVATIYA PUG
WAC NO : 0101 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 80A COMIREX NO:
KOTLAS SAM SUPPORT FACILITY
WAC NO : 0101 BE/OBJ NO: UR 605940N 0465140E
IDHS CODE: EPF CAT : 40C NPIC NO : - 3-D2
KOTLAS AAM SUPPORT FACILITY
WAC NO : 0101 BE/OBJ NO: COMIREX NO:
IDHS CODE: EPF CAT : 40J UR 605940N 0465140E
KOTLAS AIRFIELD SOUTH GCI SITE
WAC NO : 0101 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25H COMIREX NO:
KOTLAS AIRFIELD SOUTH GLA SITE
WAC NO : 101 BE/OBJ NO: UR 605900N 0465700E
IDHS CODE: EPF CAT : 25H NPIC NO : - 3-D1
KOTLAS AIRFIELD SOUTH
WAC NO : 0101 BE/OBJ NO: COMIREX NO:
IDHS CODE: EPF CAT : 05A UR 605915N 0465255E
NPIC NO : -
COMIREX NO: 25X1
UR 605947N 0465224E
NPIC NO : - 3-D
COMIREX NO: 25X1

THIS REPORT SUPERSEDES DIA, RDA05/0011/70, KOTLAS SOUTH AIRFIELD, USSR, JAN 70 (TOP SECRET RUFF) AS THE BASIC REPORT FOR THE AIRFIELD.

THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF KOTLAS SOUTH AIRFIELD, USSR AND ASSOCIATED FACILITIES FROM JUNE 1963. THE AIRFIELD, LOCATED IN NORTHWESTERN USSR, SUPPORTS FOXBAT AIRCRAFT. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,509M X 49M RUNWAY, A 2,509M X 80M AUXILIARY SOD

2079
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 17,389,170 LITERS, AIRCRAFT MAINTENANCE, MISSILE SUPPORT FACILITIES, ACCOMMODATIONS, STORAGE AND TRANSPORTATION. AOB [REDACTED] WAS 32 MIG-25/FOXBAT A, 1 UMIG-15/MIDGET AND MI-8/HIP. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES 1 MAP, 14 ANNOTATED PHOTOGRAPHS, TABLES, AND A CHRONOLOGY. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

25X1

25X1)

DIA B11R RDA11-0015-78 NOV 78 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0019P ACCT: 50855925X1

HSIANGKOU AMMUNITION LOADING/METAL PARTS CPLX	CH 300152N 1165122E
WAC NO : 0493	NPIC NO : - 66-A
IDHS CODE: [REDACTED]	COMIREX NO: [REDACTED]
HSIANGKOU AMMUNITION LOADING/METAL PARTS CPLX	CH 300152N 1165122E
WAC NO : 0493	NPIC NO : - 66-A
IDHS CODE: [REDACTED]	COMIREX NO: [REDACTED]
HSIANGKOU AMMUNITION LOADING PLANT EAST CPLX	CH 300218N 1165443E
WAC NO : 0493	NPIC NO : - 66
IDHS CODE: [REDACTED]	COMIREX NO: [REDACTED]
HSIANGKOU EXPLOSIVES + PROPELLANT PLANT	CH 300512N 1165705E
WAC NO : 0493	NPIC NO : - 55
IDHS CODE: [REDACTED]	COMIREX NO: [REDACTED]
HSIANGKOU EXPLOSIVES + PROPELLANT PLANT	CH 300512N 1165705E
WAC NO : 0493	NPIC NO : - 55
IDHS CODE: [REDACTED]	COMIREX NO: [REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF THE HSIANG-KOU AMMUNITION AND EXPLOSIVES PRODUCTION COMPLEX, LOCATED 6.5 NAUTICAL MILES (NM) EAST OF HSIANG-KOU, IN ANHWEI PROVINCE, SOUTH PEOPLE'S REPUBLIC OF CHINA (PRC). THE COMPLEX, CONSISTING OF THREE SEPARATE INSTALLATIONS, INCLUDES FACILITIES FOR THE PRODUCTION, STORAGE, AND TESTING OF BULK EXPLOSIVES, FINISHED AMMUNITION, AND EXPLOSIVE DEVICES SUCH AS MINES AND GRENADES. THE ROAD SERVED INSTALLATIONS COMPRISING THIS COMPLEX OCCUPY A TOTAL OF 1,600 HECTARES, AND CONTAIN 492 BUILDINGS WITH A TOTAL OF 109,778 SQUARE METERS OF ROOF COVER.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, 10 ANNOTATED PHOTOGRAPHS, AND 9 TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. NATIONAL BASIC REFERENCE GRAPHICS (NBRG) ARE INCLUDED.

2080
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NPIC SR SR075-78 NOV 78 SEC CLASS: 05I MSN: 0003P ACCN: S085600

VARANGAON AMMUNITION PLT SMALL ARMS AMMO FAC IN 210232N 0755530E
 WAC NO : 0560 BE/OBJ NO: NPIC NO : - 18
 IDHS CODE: EPF CAT : 35G COMIREX NO:
 TIRUCHIRAPPALLI SMALL ARMS PLANT IDENT IN 104326N 0784713E
 WAC NO : 0795 BE/OBJ NO: NPIC NO : - 6-B
 IDHS CODE: EPF CAT : 35G COMIREX NO:

25X1
25X1
25X1
25X1

THE TIRUCHIRAPPALLI SMALL ARMS PLANT, IDENTIFIED AND THE VARANGAON AMMUNITION
 PLANT SMALL ARMS AMMUNITION FACTORY, IDENTIFIED INCREASE TO THREE THE NUMBER OF
 SMALL ARMS PLANTS IDENTIFIED IN INDIA.*

25X1
25X1

25X1

NPIC SR SR077-78 NOV 78 SEC CLASS: 14D MSN: 0003P ACCN: S085602 25X1

AIRCRAFT, CUB AN-12 + COKE AN-24 PODS U/I UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 050 COMIREX NO:

UNIDENTIFIED PODS HAVE BEEN OBSERVED ON CUB AND COKE AIRCRAFT AT FOUR SOVIET AIRFIELDS. THESE PODS
 WERE MOUNTED ON THE RIGHT FORWARD PORTION OF THE CUB FUSELAGE AND JUST BELOW THE COCKPIT ON THE LEFT
 FORWARD PORTION OF THE COKE FUSELAGE.

NPIC IIR IIR089-78 07 NOV 78 SEC CLASS: 14D MSN: 0008P ACCN: S085604 25X1

2081
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MILITARY, SINO-SOVIET-MONGOLIAN BDR SOV DEFS	MG
WAC NO :	BE/OBJ NO:
IOHS CODE:	EPF CAT : 35
MILITARY, SINO-SOVIET-MONGOLIAN BDR SOV DEFS	CH
WAC NO :	BE/OBJ NO:
IOHS CODE:	EPF CAT : 35
MILITARY, SINO-SOVIET-MONGOLIAN BDR SOV DEFS	UR
WAC NO :	BE/OBJ NO:
IOHS CODE:	EPF CAT : 35
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:

IN 1973 THE SOVIETS BEGAN CONSTRUCTION ON A GROUND FORCE STATIC DEFENSIVE LINE ALONG A 200-NAUTICAL-MILE (NM) SECTION OF THE SINO-SOVIET-MONGOLIAN TRIBORDER AREA IN THE TRANSBAYKAL MILITARY DISTRICT. BY NOVEMBER 1976, A TOTAL OF APPROXIMATELY 600 TANK TURRET STATIC DEFENSIVE POSITIONS WERE EITHER COMPLETED OR UNDER CONSTRUCTION ALONG THE FRONT EXTENDING FROM LAKE ZUN-TOREY (50-02-05N 115-58-30E) TO SHEDNAYAYA BORZYA (50-53-45N 119-28-41E). THE MAIN DEFENSIVE LINE, WHICH IS FROM 2 TO 3 NM INSIDE SOVIET TERRITORY, GIVES THE SOVIETS OVERLAPPING FIELDS OF FIRE ALONG THIS ENTIRE SECTION OF THE BORDER.

25X1

2082
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA BIIR RDA11-0016-77 NOV 78 SEC CLASS: 14D MSN: 0018P ACCN: S085607

NIEN-TZU-SHAN AMMUNITION PLANT 123

WAC NO : 0284

BE/ORJ NO:

CH 473120N 1225440E

NPIC NO : - 9-B

IDHS CODE:

EPF CAT : 356

COMIREX NO:

THIS REPORT SUPERSEDES DIA, RDA-11/0022/71, NIEN-TZU-SHAN AMMUNITION PLANT 123, CHINA, DEC 70 (TOP SECRET RUFF CODEWORD), FORMERLY THE BASIC REPORT FOR THIS INSTALLATION.

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF NIEN-TZU-SHAN AMMUNITION PLANT 123, LOCATED ON THE NORTHEAST EDGE OF NIEN-TZU-SHAN, 3NM EAST OF THE YA-LU-HO (RIVER), AND 6.8NM ENE OF LI-SAN-TIEN, PEOPLE'S REPUBLIC OF CHINA (PRC). THE INSTALLATION ENCOMPASSES 430 HECTARES AND CONSISTS OF FACILITIES FOR THE PRODUCTION, SHIPPING, AND STORAGE OF FINISHED AMMUNITION AND EXPLOSIVES DEVICES SUCH AS TORPEDOES, MINES, AND DEPTH CHARGES. THE INSTALLATION IS ROAD AND RAIL SERVED AND CONTAINS 473 BUILDINGS TOTALING 217,661 SQUARE METERS OF ROOF COVER. OF THESE, 14 ARE EXPLOSIVES PROCESSING BUILDINGS THAT CONSTITUTE A PERCENT (17,517 SQUARE METERS) OF THE TOTAL ROOF COVER. THE INSTALLATION HAS BEEN DIVIDED INTO FIVE FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH.

THE INSTALLATION IS ALSO REPORTED TO PRODUCE CYLINDER JACKETS FOR RECIPROCATING AIRCRAFT ENGINES AND IS INVOLVED WITH UNIDENTIFIED PROCESSING OF COPPER AND BRASS BARS.

TWO GEOGRAPHICALLY RELATED INSTALLATIONS, NIEN-TZU-SHAN AMMUNITION TEST AREA, NEW, NORTH (BE [REDACTED] AND NIEN-TZU-SHAN AMMUNITION TEST AREA, OLD SOUTH [REDACTED] ARE 4NM TO THE NNE AND 3N, TO THE SOUTH, RESPECTIVELY. THESE AREAS ARE USED FOR TESTING GRENADES, MINES, SMALL ARMS AND ARTILLERY MUNITIONS.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, TEN ANNOTATED PHOTOGRAPHS, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND COLLATERAL INFORMATION SOURCES. NATIONAL BASIC REFERENCE GRAPHICS (NRRGS) ARE INCLUDED.

NPIC BIIR RCA09-0032-78 NOV 78 SEC CLASS: 14A MSN: 0008P ACCN: S085608

BUCURESTI/BANEASA AIRFIELD

WAC NO : 0251

BE/ORJ NO:

RO 443011N 0260550E

IDHS CODE:

EPF CAT : 05A

NPIC NO : - 15

COMIREX NO:

BUCURESTI AIRFRAME PLANT BANEASA

WAC NO : 0251

BE/ORJ NO:

RO 443011N 0260550E

IDHS CODE:

EPF CAT : 056

NPIC NO : - 15-E1

COMIREX NO:

2083

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE BUCURESTI AIRFRAME PLANT BANEASA INDUSTRIA AERONAUTIC ROMANA (IAR) IN ROMANIA CONSISTS OF 44 COMPLETED BUILDINGS WITH A TOTAL APPROXIMATE FLOORSPACE OF 60,756 SQUARE METERS. AN ADDITIONAL BUILDING UNDER CONSTRUCTION IN THE PLANT AREA WILL, WHEN COMPLETED, ADD A TOTAL OF AT LEAST 2,444 SQUARE METERS TO THE PLANT'S FLOORSPACE. THE PLANT CONSISTS OF TWO COLLOCATED PRODUCTION/REPAIR FACILITIES ENCOMPASSING AN AREA OF APPROXIMATELY 26.5 HECTARES. BUCHAREST/BANEASA AIRFIELD, SITUATED ADJACENT TO THE NORTHERN SIDE OF THE PLANT, FUNCTIONS AS THE TEST AND FLYAWAY FIELD FOR THE PLANT.

BUCURESTI AIRFRAME PLANT BANEASA IAR IS INVOLVED IN THE DESIGN AND PRODUCTION OF INDIGENOUS, LIGHTWEIGHT, MULTIPURPOSE AIRCRAFT AND IN THE SERIES PRODUCTION OF A TWIN-ENGINE, FEEDERLINE TRANSPORT AIRCRAFT. THE PLANT ALSO FUNCTIONS AS A MAINTENANCE AND REPAIR FACILITY FOR LIGHT, MULTIPURPOSE AIRCRAFT; TRANSPORT AIRCRAFT; AND HELICOPTERS.

THIS REPORT INCLUDES A DETAILED DESCRIPTION OF THE BUCURESTI AIRFRAME PLANT BANEASA IAR AND THE BUCHAREST/BANEASA AIRFIELD. IT ALSO INCLUDES A LOCATION MAP, TWO ANNOTATED PHOTOGRAPHS, A TABLE OF MEASUREMENT AND CHRONOLOGICAL DATA, AND A REFERENCE PAGE.

CIA NOTE ISSN0008K-78 08 NOV 78 SEC CLASS: 14 MSN: 0009P ACCN: 50856025X1

TRANSPORTATION, ROAD CONST CHINESE REDUCED	LA
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 85A	COMIREX NO:
STORAGE, GRAIN STORAGE BUNKERS IDENTIFICATION	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 80B	COMIREX NO:
DUNAY SUBMARINE BASE + SHIPYARD FLTG DRYDOCK	UR 425400N 1322110E
WAC NO : 0291 BE/OBJ NO:	NPIC NO : - 4-C
IDHS CODE: EPF CAT : 75A	COMIREX NO:
DUNAY SUBMARINE BASE + SHIPYARD FLTG DRYDOCK	UR 425400N 1322110E
WAC NO : 0291 BE/OBJ NO:	NPIC NO : - 4-C
IDHS CODE: EPF CAT : 75E	COMIREX NO:
WUHSING MISSILE PROPULSION R&D CENTER EXPSN	CH 304450N 1200135E
WAC NO : 0492 BE/OBJ NO:	NPIC NO : - 56-6
IDHS CODE: EPF CAT : 40E	COMIREX NO:
HUHOHAOTE SOLID PROPELLANT COMPLEX EXPANSION	CH 404414N 1115740E
WAC NO : 0288 BE/OBJ NO:	NPIC NO : - 7-H
IDHS CODE: EPF CAT : 40E	COMIREX NO:

25X1
25X1
25X1
25X1

25X1
25X1

DIA BIR RDA11-0028-77 NOV 78 SEC CLASS: 14B MSN: 0016P ACCN: 508561025X1

DOBUNICA NAD VAHOM METALLURGICAL PLT MTL PROD	CZ 485800N 0181114E
WAC NO : 0232 BE/OBJ NO:	NPIC NO : - 37
IDHS CODE: EPF CAT : 30C	COMIREX NO:
DOBUNICA NAD VAHOM METALLURGICAL PLT MTL PROD	CZ 485800N 0181114E
WAC NO : 0232 BE/OBJ NO:	NPIC NO : - 37
IDHS CODE: EPF CAT : 35G	COMIREX NO:

25X1
25X1

25X1
25X1

2084
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF THE DUBNICA NAD VAHOM METALLURGY PLANT, CZECHOSLOVAKIA (FORMERLY KNOWN AS THE DUBNICA NAD VAHOM ARMAMENTS AND MACHINERY AND GUIDED MISSILE PLANT). THE PLANT CONTAINS A FABRICATION/ASSEMBLY AREA, A ROCKET MOTOR AND ORDNANCE TEST AREA, A SECURITY FORCE BARRACKS AREA, AND AN AMMUNITION LOADING AND STORAGE AREA. THE INSTALLATION ENCOMPASSES AN AREA OF APPROXIMATELY 783 HECTARES AND CONTAINS 401 BUILDINGS. THE PLANT PRODUCES RM-70 MULTIPLE ROCKET LAUNCHERS, BMP ARMORED PERSONNEL CARRIERS, M53 ANTI-AIRCRAFT ARTILLERY, ANTITANK GUIDED MISSILES AND 122MM ROCKETS. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL AND TABULAR FORM. IT INCLUDES A MAP AND FIVE LINE DRAWINGS. THE DESCRIPTIONS OF THE INSTALLATION AND OF EACH FUNCTIONAL AREA ARE SUPPLEMENTED BY TABLES CONTAINING DIMENSIONAL DATA. A REFERENCE DATA LIST FURNISHES MAP, IMAGERY AND DOCUMENTARY SOURCES. ADDITIONAL CATEGORIES INCLUDE 62413, 62433, 63440 AND 68101. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

25X1

2085
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC BIR RCA09-0037-78 NOV 78 SEC CLASS: 14B MSN: 0014P ACCN: 508561

VORONEZH AIRFRAME PLANT 64

WAC NO : 0234

IDHS CODE:

BE/OHJ NO:

EPF CAT : 05G

UR 513819N 0391517E

NPIC NO : - 46-F

COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES AN IMAGERY-DERIVED ANALYSIS OF VORONEZH AIRFRAME PLANT 64 IN THE USSR; IT IS THE FIRST NPIC BASIC REPORT ON THIS PLANT. THE PLANT IS CURRENTLY ENGAGED IN THE PRODUCTION OF TU-144 CHARGER AIRCRAFT AND ALSO APPEARS TO BE ENGAGED IN THE OVERHAUL-MAINTENANCE/REPLACEMENT AND MODIFICATION OF ENGINES FOR THE TU-134 CRUSTY AIRCRAFT. THE PLANT WILL PROBABLY BE THE PRODUCTION FACILITY FOR THE IL-86 CAMBER.

AS OF 9 AUGUST 1978, PLANT 64 CONTAINED APPROXIMATELY 94 BUILDINGS WITH APPROXIMATELY 482,010 SQUARE METERS OF FLOORSPACE. IN ADDITION, THREE STRUCTURES PRESENTLY UNDER CONSTRUCTION WILL SIGNIFICANTLY INCREASE THE FLOORSPACE OF THE PLANT.

A LOCATION MAP, FOUR PHOTOGRAPHS, AND A TABLE OF MENSURAL AND CHRONOLOGICAL DATA ARE INCLUDED IN THIS REPORT. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 1 SEPTEMBER 1978.

25X1

2086
TOP SECRET CHESS RUFF

25X1

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Next 1 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO

20 NOV 78

SEC CLASS: 14D MSN:

0001P

ACCH: S085627

25X1

PETROPAVLOVSK COMSAT STATION SEARCH

UR 5254 N 15829 E

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0194 BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25C COMIREX NO:
 NPIC MEMO 20 NOV 78 SEC CLASS: 14B MSN: 0002P ACCN: S0856225X1
 MOSKVA/SHCHELKOVO ESV TRACKING FACILITY UR 555644N 0375803E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-L 25X1
 IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1

THIS MEMO DESCRIBES ANTENNA ACTIVITY AT MOSCOW/SHCHELKOVO ESV TRACKING FACILITY. THE FACILITY WAS
 IMAGED NINE TIMES SINCE 1 JANUARY 1976 AND THE ANTENNA WAS ALWAYS IN THE STOWED POSITION POINTING AT THE
 ZENITH.*

DIA NBRG NDA06-5001-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085629
 FEODOSIYA NAVAL FACILITIES APPROACHES SW UR 4459 N 03523 E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: EPF CAT : 75 COMIREX NO: 25X1

DIA NBRG NDA06-5002-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085630
 FEODOSIYA NAVAL BASE + SHIP REPAIR YARD UR 450131N 0352340E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 7 25X1
 IDHS CODE: EPF CAT : 75B COMIREX NO: 25X1
 FEODOSIYA NAVAL BASE + SHIP REPAIR YARD UR 450131N 0352340E
 WAC NO : 0249 BE/OBJ NO: NPIC NO : - 7 25X1
 IDHS CODE: EPF CAT : 75E COMIREX NO: 25X1

DIA NBRG NDA06-5003-78 27 NOV 78 SEC CLASS: 05G MSN: 0001P ACCN: S085631
 Khabarovsk SHIPYARD USSURI SOUTH 876 UR 482405N 1350226E
 WAC NO : 0204 BE/OBJ NO: NPIC NO : - 7-D 25X1
 IDHS CODE: EPF CAT : 75E COMIREX NO: 25X1

DIA NBRG NDA06-5004-78 27 NOV 78 SEC CLASS: 05G MSN: 0001P ACCN: S085632
 VLADIVOSTOK NAVAL RESERVE BASE NOVIK GUBA UR 430128N 1315142E
 WAC NO : 0204 BE/OBJ NO: NPIC NO : - 48-K 25X1
 IDHS CODE: EPF CAT : 75B COMIREX NO: 25X1

DIA NBRG NDA06-5009-78 29 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085633
 BAKU NAVAL FACILITIES APPROACHES UR 4020 N 04953 E

2090
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : -		25X1
	IDHS CODE: []	EPF CAT : 75	COMIREX NO:		25X1
DIA	NBRG	NDA06-5010-78	29 NOV 78	SEC CLASS: 05B MSN: 0001P	ACCN: S085634
	BAKU NAVAL BASE + SHIP REPAIR YARD		UR 402042N 0495053E		
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-R2		25X1
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
	BAKU NAVAL BASE + SHIP REPAIR YARD		UR 402042N 0495053E		
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-R2		25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []		25X1
DIA	NBRG	NDA06-5005-78	29 NOV 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085635
	KARACHI NAVAL BASE + DOCKYARD WEST WHARF		PK 244950N 0665820E		
	WAC NO : 0550	BE/OBJ NO: []	NPIC NO : - 121-B		25X1
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
	KARACHI NAVAL BASE + DOCKYARD WEST WHARF		PK 244950N 0665820E		
	WAC NO : 0550	BE/OBJ NO: []	NPIC NO : - 121-B		25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []		25X1
DIA	NBRG	NDA06-5006-78	29 NOV 78	SEC CLASS: 05G MSN: 0001P	ACCN: S085636
	BOMBAY NAVAL BASE + SHIP REPAIR YARD		IN 185533N 0725015E		
	WAC NO : 0673	BE/OBJ NO: []	NPIC NO : - 3-C		25X1
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
	BOMBAY NAVAL BASE + SHIP REPAIR YARD		IN 185533N 0725015E		
	WAC NO : 0673	BE/OBJ NO: []	NPIC NO : - 3-C		25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []		25X1
DIA	IIM	5B1-50504-78	NOV 78	SEC CLASS: 14 MSN: [] 0004P	ACCN: S085637
	SHCHUCHINSK AVTOKOLONNA 5015		UR 525515N 0700815E		
	WAC NO : 0163	BE/OBJ NO: []	NPIC NO : -		25X1
	IDHS CODE: []	EPF CAT : 85A	COMIREX NO:		25X1
DIA	IIM	5B1-50498-78	NOV 78	SEC CLASS: 14 MSN: [] 0004P	ACCN: S085638
	FRUNZE AVTOKOLONNA 2912		UR 425202N 0743140E		
	WAC NO : 0328	BE/OBJ NO: []	NPIC NO : -		25X1
	IDHS CODE: []	EPF CAT : 85A	COMIREX NO:		25X1

25X1

2091
TOP SECRET CHESS RUFF

25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

[REDACTED] 25X1

DIA IIM 5B1-50492-78 20 NOV 78 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 0004P
FRUNZE REPAIR AVTOKOLONNA 2910 UR 425149N 0743136E
WAC NO : 0328 BE/OBJ NO: [REDACTED] NPIC NO : -
IDHS CODE: [REDACTED] EPF CAT : 85A COMIREX NO:

ACCN: S0856425X1

25X1 (

25X1

DIA IIM 5B1-60024-78 07 NOV 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0006P
BEREZHANY ARMY BARRACKS AL1 UR 492635N 0245630E
WAC NO : 0232 BE/OBJ NO: [REDACTED] NPIC NO : - 338
IDHS CODE: [REDACTED] EPF CAT : 35A COMIREX NO:

ACCN: S0856425X1

25X1

25X1

[REDACTED] 25X1

DIA IIM 5B1-60026-78 NOV 78 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 0003P

ACCN: S0856425X1

25X1

2092
TOP SECRET CHESS RUFF [REDACTED]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

BATUMI AVTOKOLONNA 2659

WAC NO : 0324

IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 85A

UR 413840N 0413712E

NPIC NO : -
COMIREX NO:25X1
25X1

DIA IIM 5B1-60023-78

NOV 78

SEC CLASS: 14

MSN: []

0004P

ACCN: S085647

25X1

ANDIZHAN AVTOKOLONNA 2508

WAC NO : 0328

IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 85A

UR 404542N 0722030E

NPIC NO : -
COMIREX NO:25X1
25X1

DIA NBRG NDA06-5007-78

27 NOV 78

SEC CLASS: 05B

MSN:

0001P

ACCN: S085650

BALAKLAVA NAVAL FACILITIES APPROACHES

WAC NO : 0250

IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75

UR 4429 N 03336 E

NPIC NO : -
COMIREX NO:25X1
25X1

DIA NBRG NDA06-5008-78

27 NOV 78

SEC CLASS: 05B

MSN:

0001P

ACCN: S085651

BALAKLAVA SUBMARINE BASE + SHIP REPAIR YARD

WAC NO : 0250

IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75E

UR 443010N 0333554E

NPIC NO : - 3
COMIREX NO: []25X1
25X1

BALAKLAVA SUBMARINE BASE + SHIP REPAIR YARD

WAC NO : 0250

IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75A

UR 443010N 0333554E

NPIC NO : - 3
COMIREX NO: []25X1
25X1
25X12093
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0154 BE/OBJ NO: EPF CAT : 40 NPIC NO : - 1A-C1
IDHS CODE: IVANKOVSKIY GUIDED MISSILE PLANT COMIREX NO:
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 1A-A
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1
25X1
25X1

THIS REPORT DESCRIBES ACTIVITY AT THE IVANKOVSKIY GUIDED MISSILE PLANT AND IVANKOVSKIY GUIDED MISSILE PLANT TRANSSHIPMENT FACILITY, USSR, FROM JUNE 1975 THROUGH AUGUST 1978. IT UPDATES THE INFORMATION IN THE PREVIOUS NPIC REPORT ON THE IVANKOVSKIY GUIDED MISSILE PLANT, AND DESCRIBES THE IVANKOVSKIY GUIDED MISSILE PLANT TRANSSHIPMENT FACILITY.

25X1()

AT THE IVANKOVSKIY GUIDED MISSILE PLANT, THE AS-4 AND AS-9 AIR-TO-SURFACE MISSILES ARE CURRENTLY BEING PRODUCED. A NEW SHIPPING CRATE FOR THE AS-9 MISSILE, WHICH WILL PROBABLY REPLACE THE ORIGINAL AS-9 CRATE, WAS IDENTIFIED AT THE PLANT IN APRIL 1976. THE COMPLETION OF A FABRICATION/ASSEMBLY BUILDING AND AN ADMINISTRATION/ENGINEERING BUILDING DURING THE REPORTING PERIOD INDICATES THAT A NEW MISSILE SYSTEM MAY BE PRODUCED AT THE PLANT. THE IVANKOVSKIY GUIDED MISSILE PLANT TRANSSHIPMENT FACILITY WAS IDENTIFIED AS A RESULT OF THE OBSERVATION OF AS-4 MISSILE SHIPPING CRATES THERE.

THIS REPORT INCLUDES ONE LOCATION MAP, THREE ANNOTATED PHOTOGRAPHS, TWO TABLES, AND TWO GRAPHS.

25X1

2094
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

25X1

DIA NBRG NDA06-5011-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085677

SEVEROMORSK NAVAL MISSILE LDG FACIL OKOLNAYA UR 690543N 0332742E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 32-B1
IUHS CODE: EPF CAT : 40G COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5012-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085678

OLENYA GUBA SUBMARINE REPAIR BASE UR 691250N 0331745E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 19-A1
IUHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5013-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085679

POLYARNYY SUBMARINE BASE UR 691208N 0332740E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 24-A
IUHS CODE: EPF CAT : 75A COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5014-78 21 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085680

KHERSON SHIPYARD KOMINTERN UR 463735N 0323530E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 38-A2
IUHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5135-77 30 NOV 78 SEC CLASS: 05G MSN: 0001P ACCN: S085681

2096
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

HSINHSIANG NAVAL FACILITIES APPROACHES

WAC NO : 0492

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75

CH 301520N 1221828E

NPIC NO : -

COMIREX NO:

25X1
25X1

DIA NBRG RDA06-5136-77 30 NOV 78

SEC CLASS: 056 MSN:

0001P

ACCN: S085682

HSINHSIANG NAVAL BASE

WAC NO : 0492

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75R

CH 301506N 1221817E

NPIC NO : - 32-B1

COMIREX NO: []

25X1
25X1
25X1

DIA IIM 5B3-50637-78 22 NOV 78

SEC CLASS: 13

MSN: []

0001P

ACCN: S085684

25X1

KRYMSK AIRFIELD AIRCRAFT BUNKERS

WAC NO : 0249

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 445750N 0380005E

NPIC NO : - 21

COMIREX NO: []

25X1
25X25X1

25X1

2097
TOP SECRET CHESS RUFF

25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1
25X1

25X1

DIA IIM 563-50531-78 21 NOV 78 [REDACTED] SEC CLASS: 13 MSN [REDACTED] 0006P

ACCN: S08568 25X1

NASOSNYY AIRFIELD AIRCRAFT BUNKERS

UR 403534N 0493322E

WAC NO : 0325

BE/OBJ NO: [REDACTED]

NPIC NO : - 43

UDHS CODE: [REDACTED]

EPF CAT : 05A

COMIREX NO: [REDACTED]

25X1 ()
25X1

25X1

2098
TOP SECRET CHESS RUFF [REDACTED]

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-50536-78 22 NOV 78

SEC CLASS: 14B MSN

0004P

ACCN: 5085691 25X1

SWARZEDZ MILITARY AREA SW 2 PROB

PL 522325N 0170145E

WAC NO : 0162

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35

COMIREX NO:

SWARZEDZ MILITARY AREA SW 1 PROB

PL 522330N 0170115E

WAC NO : 0169

BE/OBJ NO:

NPIC NO. : -

25X1

2099

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 35 COMIREX NO: 25X1
 DIA IIM 5B1-50511-78 NOV 78 SEC CLASS: 14 MSN: 0004P ACCN: 50856923A1 25X1
 FERGANA AVTOKOLONNA 2504 UR 402155N 0714624E 25X1
 WAC NO : 0328 BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: EPF CAT : 85A COMIREX NO: 25X1
 DIA IIM 5B1-50530-78 27 NOV 78 SEC CLASS: 14B MSN: 0009P ACCN: 50856923A1 25X1
 MILITARY, BM-21 122MM ROCKET LNCHR REGT DPL UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35E COMIREX NO:
 MILITARY, ZIL-131 MRL REGIMENTAL DEPLOYMENT UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35E COMIREX NO:

THE SOVIETS HAVE INCORPORATED TWO ROCKET LAUNCHER SYSTEMS INTO THEIR MANEUVER REGIMENTS: THE STANDARD 122MM ROCKET LAUNCHER (40-ROUND) BM-21 AND A NEW MULTIPLE ROCKET LAUNCHER OF AN UNDETERMINED CALIBER MOUNTED ON A ZIL-131 TRUCK CHASSIS. THIS REPORT SUMMARIZES ALL CURRENT KNOWLEDGE OF THE NEW MRL, AND ATTEMPTS TO ESTABLISH COMMON CHARACTERISTICS OF ITS OBSERVED DEPLOYMENT. ALTHOUGH THE EMPHASIS IS ON THE NEW MRL, COMMENT IS ALSO DIRECTED TO THE REGIMENTAL DEPLOYMENT OF THE BM-21 SYSTEM.*

25X1

2100
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA NBRG NDA07-5224-78 30 NOV 78

SEC CLASS: 05B MSN:

0001P

ACCN: S085697

KRAASNOYARSK ARMY BARRACKS AL2 + TRNG AREA TA1

UR 560252N 0925551E

WAC NO : 0159

BE/OBJ NO:

NPIC NO : - 7-A1

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

KRAASNOYARSK ARMY BARRACKS AL2 + TRNG AREA TA1

UR 560252N 0925551E

WAC NO : 0159

BE/OBJ NO:

NPIC NO : - 7-A1

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

DIA NBRG NDA07-5225-78 30 NOV 78

SEC CLASS: 05B MSN:

0001P

ACCN: S085698

OMSK ARMY BARRACKS SSE AL5 + TRAINING AREA 2

UR 545304N 0732936E

WAC NO : 0163

BE/OBJ NO:

NPIC NO : - 5-Y

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

OMSK ARMY BARRACKS SSE AL5 + TRAINING AREA 2

UR 545304N 0732936E

WAC NO : 0163

BE/OBJ NO:

NPIC NO : - 5-Y

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

DIA NBRG NDA07-5226-78 30 NOV 78

SEC CLASS: 05B MSN:

0001P

ACCN: S085699

OMSK ARMY BARRACKS AL7 + TRAINING AREA 1

UR 545300N 0732018E

WAC NO : 0163

BE/OBJ NO:

NPIC NO : - 5-W3

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

OMSK ARMY BARRACKS AL7 + TRAINING AREA 1

UR 545300N 0732018E

WAC NO : 0163

BE/OBJ NO:

NPIC NO : - 5-W3

IDHS CODE:

EPF CAT : 35B

COMIREX NO:

2101

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NBRG NDA07-5227-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085700
UMSK ARMY BARRACKS AL9 + HEADQUARTERS TK DIV UR 545740N 0732350E
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 5-D1 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5228-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085701 ()
CHIRCHIK ARMY BARRACKS AL9 UR 412702N 0693320E
WAC NO : 0328 BE/OBJ NO: NPIC NO : - 10-B6 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5229-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085702
BELOVOUSKOYE ARMY BARRACKS AL2 UR 424900N 0740550E
WAC NO : 0328 BE/OBJ NO: NPIC NO : - 155-A 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5230-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085703
ALMA ATA ARMY BARRACKS EAST AL4 UR 431620N 0765740E
WAC NO : 0329 BE/OBJ NO: NPIC NO : - 1-D1 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1

DIA NBRG NDA07-5231-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085704
RYBACHYE ARMY BARRACKS AL1/TRAINING AREA TA1 UR 422950N 0761200E
WAC NO : 0329 BE/OBJ NO: NPIC NO : - 13-D 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1
RYBACHYE ARMY BARRACKS AL1/TRAINING AREA TA1 UR 422950N 0761200E
WAC NO : 0329 BE/OBJ NO: NPIC NO : - 13-D 25X1
IUHS CODE: EPF CAT : 35B COMIREX NO: 25X1

DIA NBRG NDA07-5232-78 30 NOV 78 SEC CLASS: 05B MSN: 0001P ACCN: S085705
KIZYL ARVAT ARMY BARRACKS SE AL4 UR 385750N 0561700E
WAC NO : 0338 BE/OBJ NO: NPIC NO : - 11-B1 25X1
IUHS CODE: EPF CAT : 35A COMIREX NO: 25X1

ARMY BIIR RAC24-0005-78 SEP 78 SEC CLASS: 14B MSN: 0019P ACCN: S085706 25X1
MILITARY, URAL-375 GENR TRAILER AR-EL-1 ASSOC UR

2102
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35E	COMIREX NO:
ELECTRONICS, AR-EL-1 RADIO INTERCEPT/DF RCVR		
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25D	COMIREX NO:
ELECTRONICS, AR-EL-1 RADIO INTERCEPT/DF RCVR		
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 25A	COMIREX NO:

THIS BIIR CONTAINS A DETAILED PHYSICAL DESCRIPTION OF A NEW SOVIET RADIO INTERCEPT/DIRECTION FINDING RECEIVER/PROCESSOR VAN. THE VAN IS DESIGNATED BY THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER (NPIC) AS THE AR-EL-01 AND IS A URAL-375 BOX BODY VAN (BBV) WITH A CHAMFERED ROOF. A COVERED PROBABLE ANTENNA, DISTINCTIVELY C-SHAPED, IS MOUNTED ATOP THE CHAMFERED ROOF. A TELESCOPIC MAST IS MOUNTED AT THE RIGHT FRONT OF THE VAN BODY BETWEEN THE VAN AND THE TRUCK CAB. WHEN FIELD DEPLOYED, THE AR-EL-01 IS NORMALLY CABLE-CONNECTED TO TALL RODS AND SQUARE FOUR RADIO INTERCEPT/DIRECTION FINDING ANTENNAS AND AN ASSOCIATED TWO-AXLE GENERATOR TRAILER. A POSSIBLE ASSOCIATED URAL-375 CHAMFERED ROOF VAN IS FREQUENTLY SEEN.

THE AR-EL-01 IS PRODUCED AND/OR ASSEMBLED AT THE VORONEZH MINING EQUIPMENT PLANT.

THE AR-EL-01 WAS FIRST IDENTIFIED AS OPERATIONALLY DEPLOYED NEAR NEBIT DAG ARMY BARRACKS AL1, USSR.

THE AR-EL-01 IS CURRENTLY DEPLOYED IN THE SOVIET UNION, MONGOLIA AND EAST GERMANY.

AT SELECTED SITES, THE AR-EL-01 (URAL-375 BOX BODY WITH CHAMFERED ROOF) HAS REPLACED THE ZIL-157 AS THE RECEIVER VAN USED WITH THE FULL HOUSE RI/DF SYSTEM. THIS REPORT CONCLUDES THAT IN ALL FULL HOUSE SYSTEMS, THE AR-EL-01 VANS PROBABLY WILL REPLACE ALL THE ZIL-157 RECEIVER VANS DEPLOYED WITH SOVIET FRONT AND ARMY-LEVEL UNITS.

INFORMATION CONTAINED IN THIS REPORT WAS DERIVED FROM SELECTED OVERHEAD AND SMALL-FORMAT IMAGERY AND INTELLIGENCE REPORTS. THIS BIIR CONTAINS 10 ILLUSTRATIONS (INCLUDING 8 ANNOTATED PHOTOGRAPHS, AN ARTIST'S DRAWING WITH DIMENSIONS, AND A MAP SHOWING DEPLOYMENTS), NARRATIVE TEXT, AND A REFERENCE DATA SECTION.

DIA BIIR KDA05-0008-78 NOV 78 SEC CLASS: 14D MSN: 0013P

ACCN: 5085740

25X1

SHAORYANG/LIANGSHIH-TANG AIRFIELD

WAC NO : 0497	BE/OBJ NO:	CH 271332N 1114017E
IDHS CODE:	EPF CAT : 05A	NPIC NO : - 19-A
		COMIREX NO:

25X1

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF SHAO-YANG/LIANG-SHIH-TANG AIRFIELD AND RELATED FACILITIES DURING THE PERIOD FEBRUARY 72 TO AUGUST 77. THIS INSTALLATION, LOCATED IN THE KUANG-CHOU AIR DISTRICT IN SOUTHEAST PEOPLE'S REPUBLIC OF CHINA, IS A BOMBER-CAPABLE AIRFIELD. FEATURES DESCRIBED IN THIS REPORT INCLUDE ONE 2821M X 52M CONCRETE RUNWAY, TAXIWAYS AND PARKING FACILITIES, POL STORAGE WITH AN APPROXIMATE CAPACITY OF 14,610,930 LITERS, AMMUNITION STORAGE, AIRCRAFT MAINTENANCE, ACCOMMODATIONS, STORAGE, AND TRANSPORTATION.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP AND 10 ANNOTATED PHOTOGRAPHS. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

2103

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 05 DEC 78 SEC CLASS: 14B MSN: 0004P ACCN: S085A0 25X1

TASHKENT MILITARY RADIO COMMO RECEIVER STA UR 412000N 0692335E
WAC NO : 0320 BE/OBJ NO: NPIC NO : - 27-K3
IUHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

TASHKENT MILITARY RADCOM RECEIVER STATION WAS REVIEWED TO DETERMINE THE STATUS OF THE HIGH FREQUENCY ANTENNAS THERE. THE STATION CONSISTED OF 11 FISHBONE AND TWO DOUBLE RHOMBIC ANTENNAS. ALL PERTINENT KEYHOLE IMAGERY WAS USED.*

NPIC MEMO 05 DEC 78 SEC CLASS: 14B MSN: 0004P ACCN: S085A0 25X1

DZHANGYPAKHTA NAVAL RADIO COMMO RCVR STA BKR UR 430448N 0741012E

2106
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1WAC NO : 0328
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 25INPIC NO : - 205
COMIREX NO: [REDACTED]25X1
25X1

DZHANGYPAKHTA NAVAL RADCOM RECEIVER STATION/BUNKER WAS REVIEWED FOR A CURRENT DESCRIPTION. LATEST

25X1

DIA IIM 583-50578-78 04 DEC 78 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED] 0001P

ACCN: S085805 25X1

POCHINOK AIRFIELD AIRCRAFT BUNKERS

WAC NO : 0167
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 05AUR 542027N 0322828E
NPIC NO : - 69
COMIREX NO: [REDACTED]25X1
25X1

DIA IIM 583-50580-78 04 DEC 78 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED] 0001P

ACCN: S085806 25X1

KUBINKA AIRFIELD AIRCRAFT BUNKERS

WAC NO : 0167
IDHS CODE: [REDACTED]BE/OBJ NO: [REDACTED]
EPF CAT : 05AUR 553645N 0363855E
NPIC NO : - 34-A
COMIREX NO: [REDACTED]25X1
25X1
25X1

DIA IIM 583-50669-78 04 DEC 78 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED] 0001P

ACCN: S085811 25X1

2107
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

VORONEZH AIRFIELD SW AIRCRAFT BUNKERS

WAC NO : 0234

IDHS CODE:



BE/OBJ NO:

EPF CAT : 05A

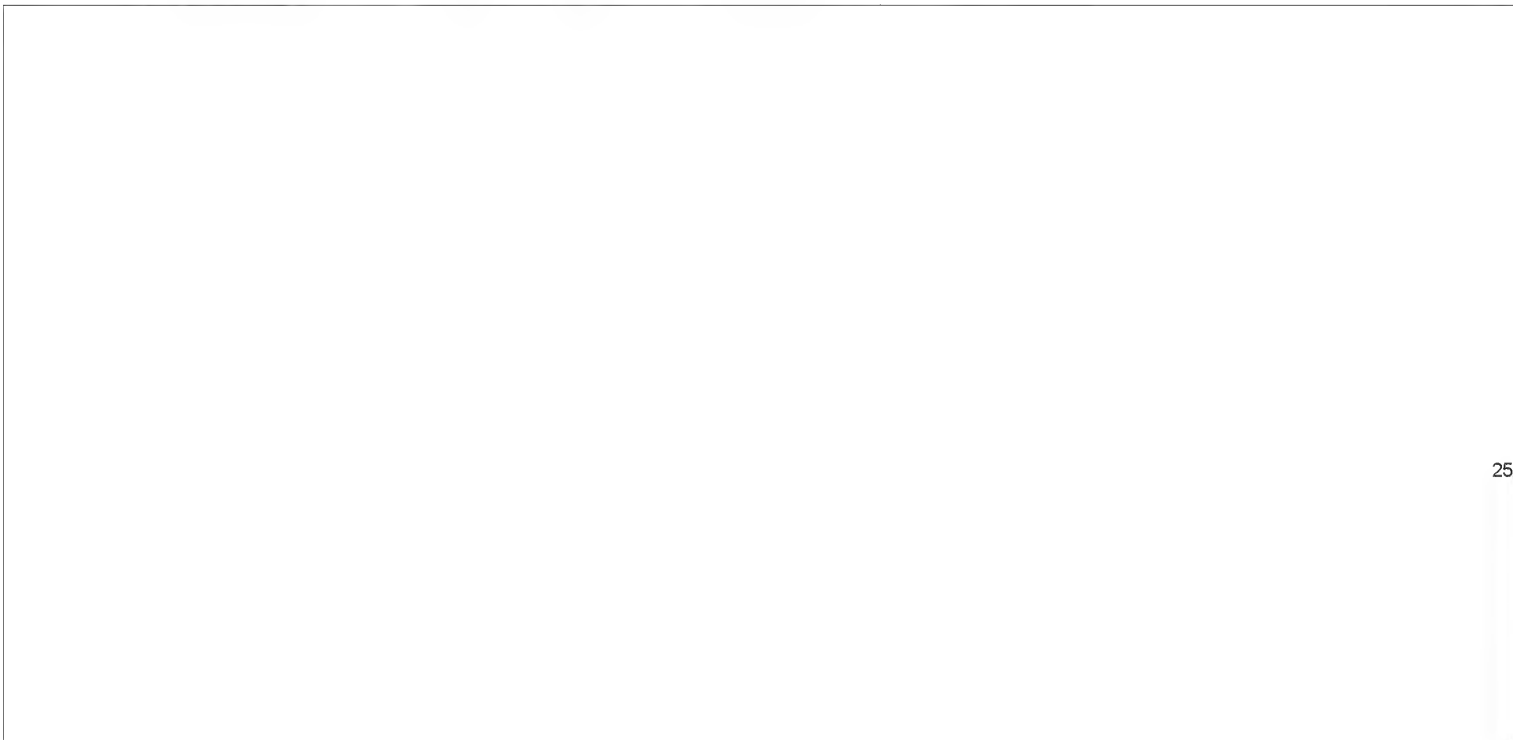
UR 513710N 0390830E

NPIC NO : - 46-C

COMIREX NO:



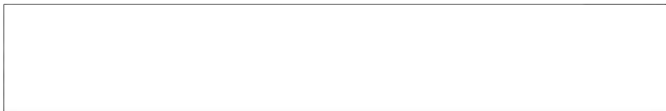
25X1
25X1



25X1

2108

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESSE RUFF

25X1
25X1

25X1

NPIC MEMO 05 DEC 78 SEC CLASS: 14B MSN: 0002P

ACCN: S085819 25X1
25X1

HAVRAN SIGINT FACILITY

WAC NO : 0231

IDHS CODE:

ZVON SIGINT FACILITY

WAC NO : 0231

IDHS CODE:

DYLEN TILLENBERG SIGINT COLLECTION FACILITY

WAC NO : 0231

IDHS CODE:

BE/OBJ NO:

EPF CAT : 25

BE/OBJ NO:

EPF CAT : 25

BE/OBJ NO:

EPF CAT : 25

CZ 494446N 0122540E

NPIC NO : -

COMIREX NO:

CZ 493425N 0123705E

NPIC NO : - 329-A

COMIREX NO:

CZ 495812N 0123019E

NPIC NO : - 172-B

COMIREX NO:

THIS MEMO GIVES A CURRENT DESCRIPTION OF DYLEN TILLENBERG SIGINT COLLECTION FACILITY, ZVON SIGINT SITE, AND HAVRAN SIGINT FACILITY.

25X1

25X1

NPIC MEMO 13 DEC 78 SEC CLASS: 14B MSN: 0002P

ACCN: S085864 25X1
25X1

NIKITOVKA TV BROADCAST STATION PROB

WAC NO : 0234

IDHS CODE:

BE/OBJ NO:

EPF CAT : 25B

UR 482010N 0380200E

NPIC NO : - 28-A

COMIREX NO:

THIS MEMO DESCRIBES NIKITOVKA TV BROADCAST STATION PROBABLE

25X1

25X1

25X1

25X1

25X1

2109
TOP SECRET CHESSE RUFF

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

NPIC MEMO [REDACTED] 07 DEC 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P

ACCN: S08587 25X1

TOLSTOPALTSEVO RADIO RELAY STATION

UR 553705N 0371215E

WAC NO : 0167

BE/OBJ NO:

NPIC NO : -

IUHS CODE:

EPF CAT : 25D

COMIREX NO:

THIS MEMO DESCRIBES TOLSTOPALTSEVO RADIO RELAY STATION. [REDACTED]

25X1

25X1

NPIC MEMO [REDACTED] 08 DEC 78 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0001P

ACCN: S08587 25X1

SKOLE/VOLOVETS RADIO RELAY STATION SEARCH

UR 485420N 0231630E

WAC NO : 0232

BE/OBJ NO:

NPIC NO : -

IUHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

2110
TOP SECRET CHESS RUFF [REDACTED]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 13 DEC 78 SEC CLASS: 14B MSN: 0001P

ACCN: S085907 25X1

FASTOV RADIO RELAY STATIONS SEARCH

WAC NO : 0233

BE/ORJ NO:

UR 5005 N 02955 E

IDHS CODE:

EPF CAT : 25D

NPIC NO : -

COMIREX NO:

NPIC MEMO 15 DEC 78

SEC CLASS: 14B MSN: 0007P

ACCN: S085908 25X1

CHAADAYEVKA ALTERNATE HEADQUARTERS PENZA EAST

WAC NO : 0166

BE/ORJ NO:

UR 530832N 0460547E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 58

COMIREX NO:

THIS MEMO DESCRIBES CHAADAYEVKA NATIONAL ALTERNATE HEADQUARTERS COMPLEX, PENZA EAST.

2111
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NPIC MEMO 15 DEC 78 SEC CLASS: 14B MSN: 0002P ACCN: S08590925X1

KOTLAS RADIO RELAY + TV STATION

WAC NO : 0101 BE/OBJ NO: EPF CAT : 25B

UR 611410N 0463730E

NPIC NO : - 3-E1

COMIREX NO: 25X1

KOTLAS RADIO RELAY + TV STATION

WAC NO : 0101 BE/OBJ NO: EPF CAT : 25D

UR 611410N 0463730E

NPIC NO : - 3-E1

COMIREX NO: 25X1

MICHURINSK TV RELAY STATION

WAC NO : 0166 BE/OBJ NO: EPF CAT : 25B

UR 525348N 0402955E

NPIC NO : - 13-F

COMIREX NO: 25X1

NOVOASBEST RADIO RELAY + TV BROADCAST STATION

WAC NO : 0156 BE/OBJ NO: EPF CAT : 25B

UR 574115N 0601015E

NPIC NO : - 73-A1

COMIREX NO: 25X1

NOVOASBEST RADIO RELAY + TV BROADCAST STATION

WAC NO : 0156 BE/OBJ NO: EPF CAT : 25D

UR 574115N 0601015E

NPIC NO : - 73-A1

COMIREX NO: 25X1

ORSK RADIO RELAY + TV BROADCAST CENTER

WAC NO : 0236 BE/OBJ NO: EPF CAT : 25B

UR 511355N 0582712E

NPIC NO : - 7-A

COMIREX NO: 25X1

ORSK RADIO RELAY + TV BROADCAST CENTER

WAC NO : 0236 BE/OBJ NO: EPF CAT : 25D

UR 511355N 0582712E

NPIC NO : - 7-A

COMIREX NO: 25X1

THIS MEMO PROVIDES THE NUMBER, TYPE, ORIENTATION, AND CURRENT DESCRIPTIONS OF FOUR RADIO-RELAY/TV CENTERS. THEY ARE LOCATED AT ORSK, NOVOASBEST, MICHURINSK, AND KOTLAS.*

NPIC MEMO 19 DEC 78 SEC CLASS: 14B MSN: 0001P ACCN: S08591725X1

KRASNODAR TV + FM BROADCAST CENTER

WAC NO : 0249 BE/OBJ NO: EPF CAT : 25B

UR 450130N 0390020E

NPIC NO : - 19-D3

COMIREX NO: 25X1

DIA 11M 5B1-50725-78 19 DEC 78

SEC CLASS: 14 MSN: 0004P

ACCN: S08591725X1

PODZUCHY ENGINEER STORAGE FACILITY 503

WAC NO : 0169 BE/OBJ NO: EPF CAT : 35F

PL 532151N 0143539E

NPIC NO : - 142-C7

COMIREX NO: 25X1

SZCZECIN ARMY BARRACKS 2 SA-6 REGT/ENGR BRGD

WAC NO : 0169 BE/OBJ NO: EPF CAT : 35A

PL 532137N 0143524E

NPIC NO : - 142-C1

COMIREX NO: 25X1

2112
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA IIM 583-50722-78 14 DEC 78

SEC CLASS: 14 MSN: 0004P

ACCN: S085925 25X1

MOLODEZHNYA AIRFIELD NEW

WAC NO : 1754

IDHS CODE:

BE/OBJ NO:
EPF CAT : USA

AY 6740 S 04551 E
NPIC NO : -
COMTREF NO:

25X1

25X1

25X1

2113
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO 20 DEC 78 SEC CLASS: 14B MSN: 0002P ACCN: 50859325X1

NEMCHINOVKA RADIO RELAY/RADIO COMMO STA HARD UR 554340N 0372130E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 36-A2
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1
25X1

NPIC MEMO 24 DEC 78 SEC CLASS: 14D MSN: 0004P ACCN: 50859325X1

NOVOILINSK RADIO RELAY STATION UR 513920N 1084130E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 84 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1
NOVOPAVLOVKA RADIO RELAY STATION UR 511030N 1091240E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 13-B 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1
KHCKOTUY RADIO RELAY STATION UR 511430N 1093330E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 80 25X1
IDHS CODE: EPF CAT : 25D COMIREX NO: 25X1

2114
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

KHILOK RADIO RELAY STATION

WAC NO : 0201

IUHS CODE: []

SARANKA RADIO RELAY STATION

WAC NO : 0201

IUHS CODE: []

ILINKA RADIO RELAY STATION

WAC NO : 0200

IUHS CODE: []

BOLSHAYA RECHKA RADIO RELAY STATION

WAC NO : 0201

IUHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

BE/OBJ NO: []

EPF CAT : 25D

BE/OBJ NO: []

EPF CAT : 25D

BE/OBJ NO: []

EPF CAT : 25D

UR 512020N 1102630E

NPIC NO : - 81

COMIREX NO: []

UR 513200N 1111220E

NPIC NO : - 82

COMIREX NO: []

UR 520519N 1071626E

NPIC NO : - 7

COMIREX NO: []

UR 515750N 1061745E

NPIC NO : - 83

COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS MEMO DESCRIBES SEVEN RADIO-RELAY STATIONS BETWEEN IRKUTSK AND CHITA, USSR. THE STATIONS WERE REVIEWED TO IDENTIFY THE NUMBER, TYPE, AND ORIENTATION OF ANTENNAS AS WELL AS CHANGES SINCE THE LAST READOUT.*

2115

TOP SECRET CHESS RUFF

25X1

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